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SERVICE MANUAL

VHF FM R	FR	30	

Icom Inc.

INTRODUCTION

This service manual describes the latest service information for the IC-FR3000/IC-FR3100 VHF FM REPEATER.

Model	Version	Symbol	Frequency range	AC supply	Power
	U.S.A.	USA	150 –174 [MHz]	100 –120 [V]	50 [W]
IC EDOOO	General	GEN2			
IC-FR3000		GEN4		220 –240 [V]	EO [/V/]
		GEN74	148 –172 [MHz]	220 –240 [V]	50 [vv]
IC-FR3100	Europe	EUR2	150 –174 [MHz]	220 240 [1/]	25 [///]
	Germany	FRG2	150 –174 [WI12]	220 -240 [V]	20 [VV]

To upgrade quality, all electrical or mechanical parts and internal circuits are subject to change without notice or obligation.

DANGER

USE ONLY the specified AC voltage described on the AC power socket. Other voltages may causes repeater damage or personal injury.

DO NOT expose the repeater to rain, snow or any liquids.

DO NOT reverse the polarities of the power supply when connecting the repeater.

DO NOT apply an RF signal of more than 20 dBm (100 mW) to the antenna connector. This could damage the repeater's front end.



ORDERING PARTS

Be sure to include the following four points when ordering replacement parts:

- 1. 10-digit order numbers
- 2. Component part number and name
- 3. Equipment model name and unit name
- 4. Quantity required

<SAMPLE ORDER>

1110003780 S.IC NJM2902V IC-FR3000 LOGIC UNIT 1 piece 8930056450 2368 6-key IC-FR3000 CHASSIS 5 pieces

Addresses are provided on the inside back cover for your convenience.

REPAIR NOTES

- Make sure a problem is internal before disassembling the repeater.
- 2. **DO NOT** open the repeater until the repeater is disconnected from its power source.
- 3. **DO NOT** force any of the variable components. Turn them slowly and smoothly.
- 4. **DO NOT** short any circuits or electronic parts. An insulated tuning tool **MUST** be used for all adjustments.
- DO NOT keep power ON for a long time when the repeater is defective.
- DO NOT transmit power into a signal generator or a sweep generator.
- 7. **ALWAYS** connect a 40 dB or 50 dB attenuator between the repeater and a deviation meter or spectrum analyser when using such test equipment.
- 8. **READ** the instructions of test equipment thoroughly before connecting equipment to the repeater.

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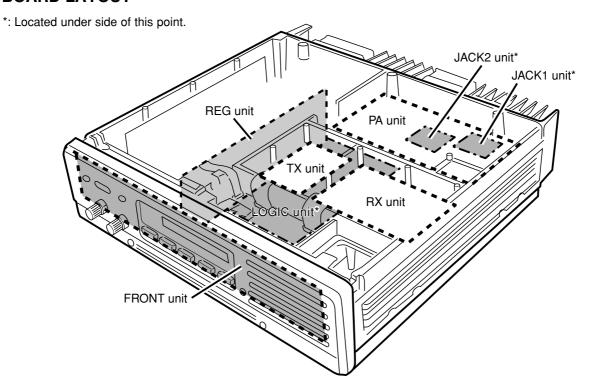
SECTION 1 SPECIFICATIONS

			IC-FR3000	IC-FR3100	
	Measurement method		EIA / TIA-603	ETS 300 086	
	Frequency range		[USA2], [GEN2], [GEN4], [GEN74], [EUR2], [FRG2]: 150.000–174.000 MHz [GEN74]: 148.000–172.000 MHz		
	Type of emission		Wide (25 kHz Middle (20 kH Narrow (12.5	lz): 14K0F3E	
	Channel spacing		[USA2], [GEN2], [GEN4], [GEN74], [EU [FRG2]:	JR2]: 25/12.5 kHz 20/12.5 kHz	
	Frequency stability		±2.5 ppm	±1.0 kHz	
إيا	Number of channels		Max. 32	channel	
ERA	Antenna connector		Type-N ×	ε 2 (50 Ω)	
GENERAL	Power supply requirement	AC		00–120 V 20–240 V	
		DC	13.6 V DC (negative ground)	13.2 V DC (negative ground)	
		TX	TX (at 50 W) 15.0 A	TX (at 25 W) 10.0 A	
	Current drain (approx.)		RX (max. audio) 2 A (stand-by) 1 A		
	Operating temperature range		-30°C to +60°C (-22°F to +140°F)	−25°C to +55°C	
	Dimensions (proj. not included)		410(W) × 110(H) × 360(D) mm; 16.1 (V	V) ×4.3 (H) × 14.1 (D) inch	
	Weight (approx.)		12 kg;	26.5 lb	
	RF output power (High/Low)		50/10 W	25/5 W	
ш	Modulation system		Variable reactance for	requency modulation	
TRANSMITTER	Maximum frequency deviation		[Wide]: ±5.0 kHz, [Middle]: ±4.0 kHz, [Narrow]: ±2.5 kHz		
ANS	Spurious emissions		70 dBc typical	0.25 μW ≤ 1GHz, 1.0 μW > 1 GHz	
TR	Adjacent channel power		[Wide], [Middle]: 70 dB, [Narrow]: 60 dB		
	Input impedance		600 Ω		
	Receive system		Double-conversion superheterodyne system		
	Intermediate frequencies		1st: 31.65 MHz, 2nd: 455 kHz		
띪	Sensitivity (typical)		0.5 μV at 12 dB SINAD	6 dBμV (emf) at 20 dB SINAD	
RECEIVER	Adjacent channel selectivity (typical)		[Wide], [Middle]: 70 dB, [Narrow]: 60 dB		
띪	Spurious response		70 dB		
	Intermodulation (typical)		70 dB		
	Audio output power		2.5 W typical at 10% distortion with a 4 Ω load		
	Audio output impedance		4	Ω	

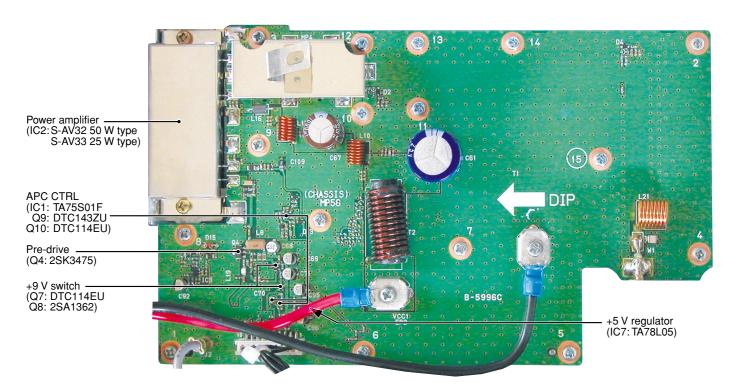
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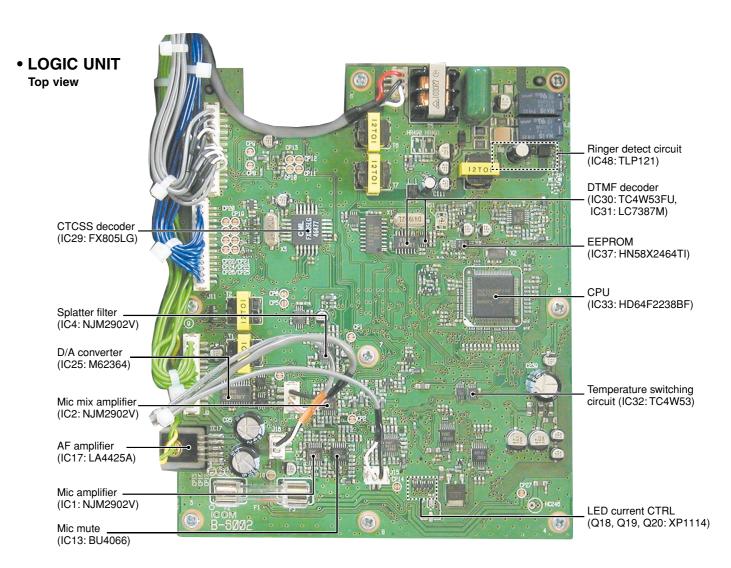
SECTION 2 INSIDE VIEWS

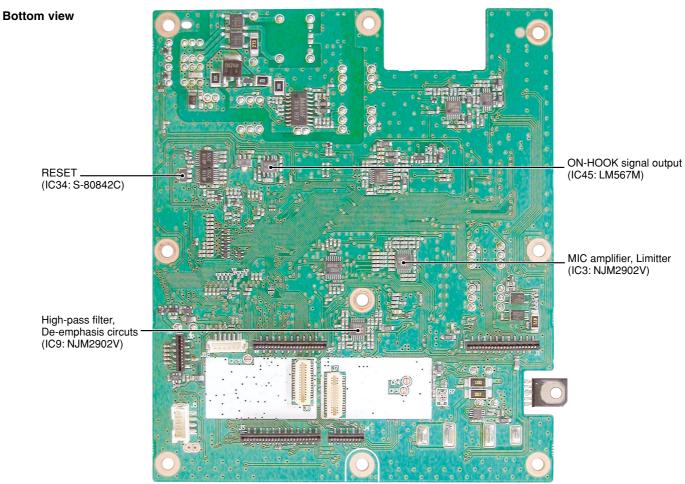
BOARD LAYOUT



• PA UNIT Top view

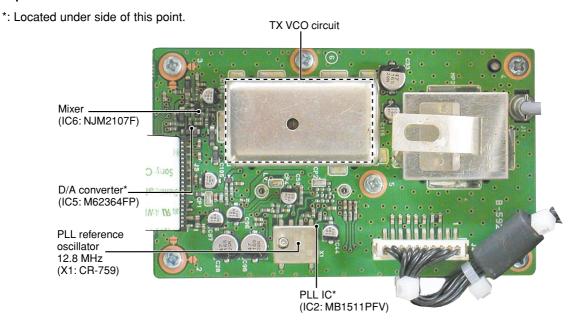






• TX UNIT

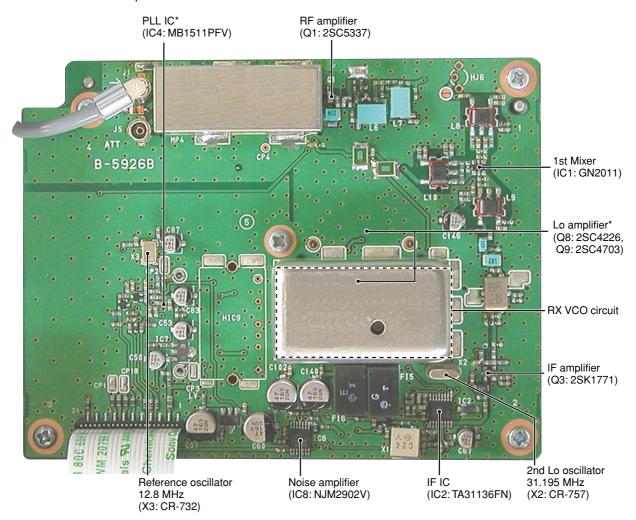
Top view



• RX UNIT

Top view

*: Located under side of this point.



SECTION 3 CIRCUIT DESCRIPTION

3-1 RECEIVER CIRCUITS 3-1-1 RF CIRCUIT (RX UNIT)

Received signals from the RX antenna connector enter the RX unit J1 and pass through a tuned bandpass filter (D3, D4, L2, L3, C5–C8, C12, C13, C205, C206, C220, 221) which is controlled by the D/A converter IC (LOGIC unit; IC25). The filtered signals are applied to an RF amplifier (Q1). The amplified signals are applied to a bandpass filter (L6, L7, L12, L13, C9–C11, C14, C15, C21, C22, C24, C30, C207, C208), and are then applied to the 1st mixer circuit.

3-1-2 1ST MIXER AND 1ST IF CIRCUITS (RX UNIT)

The 1st mixer circuit converts the received signals to a fixed frequency of the 1st IF signal with the PLL output frequency. By changing the PLL frequency, only the desired frequency will pass through a crystal filter at the next stage of the 1st mixer.

The filtered signals are applied to the 1st mixer circuit (L8, L9, L10, IC1) and are then mixed with the 1st LO signal from the PLL circuit to produce a 31.65 MHz 1st IF signal.

The 1st IF signal passes through a MCF (Monolithic Crystal Filter; FI1) to suppress out-of-band signals. The filtered signal is applied to the 2nd mixer circuit (IC2, pin 16) via the buffer amplifier (Q3).

3-1-3 2ND IF AND DEMODULATOR CIRCUITS (RX UNIT)

The 2nd mixer circuit converts the 1st IF signal to a 2nd IF signal. A double-conversion superheterodyne system improves the image rejection ratio and obtains stable receiver gain.

The amplified signal is applied to the 2nd mixer section of the FM IF IC (IC2, pin 16), and is then mixed with the 2nd LO signal for conversion to a 455 kHz 2nd IF signal.

IC2 contains the 2nd mixer, limiter amplifier, quadrature detector, active filter and noise amplifier circuits, etc. The

local oscillator section and X2 generate 31.195 MHz for the 2nd LO signal.

The 455 kHz 2nd IF signal is applied to a ceramic bandpass filter (narrow; FI5, wide; FI6) where unwanted signals are suppressed and are then applied to a limiter amplifier section in the system IC (IC2, pin 5).

The 2nd LO signal is then amplified at the limiter amplifier section (IC2, pin 5) and applied to the quadrature detector section (IC2, pins 10, 11 and X1) to demodulate the 2nd IF signal into AF signals.

The AF signals are output from pin 9 (IC2) and are then applied to the AF amplifier circuit on the LOGIC unit.

3-1-5 AF AMPLIFIER CIRCUIT (LOGIC UNIT)

The AF amplifier circuit amplifies the demodulated AF signals to drive a speaker.

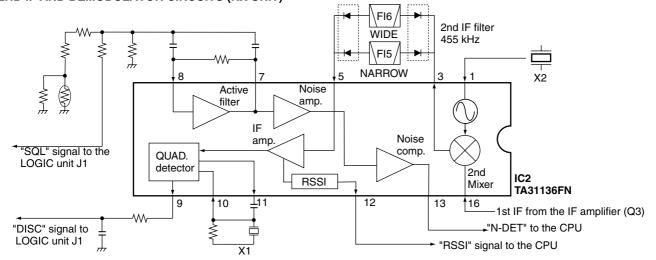
The AF signals from the FM IF IC (RX unit; IC2, pin 9) are applied to a buffer amplifier (IC9, pins 8, 9). The amplified signals pass through the high-pass filter (IC9, pins 5, 7, 12, 14) which removes CTCSS or DTCS signals.

The filtered AF signals are output from pin 7 (IC9), and are applied to the de-emphasis circuit (IC9, pins 1, 2) with frequency characteristics of -6 dB/octave, and then passed through a low-pass filter (IC10, pins 1, 3, 5, 7). The filtered signal is applied to a volume control (VR unit; R1) to control the audio level.

IC2 contains the 2nd mixer, limiter amplifier, quadrature detector, active filter and noise amplifier circuits, etc. The local oscillator section and X2 generate 31.195 MHz for the 2nd LO signal.

The output AF signals from a volume control (VR unit; R1) pass through the analog switch IC (IC16, pins 1, 7), and are then applied to the AF power amplifier (IC17, pins 1, 4) to drive a speaker.

• 2ND IF AND DEMODULATOR CIRCUITS (RX UNIT)



3-1-6 RECEIVER MUTE CIRCUITS (LOGIC UNIT) • NOISE SQUELCH

The noise squelch circuit cuts out AF signals when no RF signals are received. By detecting noise components in the AF signals, the squelch circuit switches the AF mute switch.

Some noise components in the AF signals from the FM IF IC (RX unit; IC2, pin 9) are passed through the SQL level controller (VR unit; R2). The level controlled signals are applied to the active filter section in the FM IF IC (RX unit; IC2, pin 8). Noise components about 10 kHz are amplified and output from pin 7 (RX unit; IC2).

The filtered signals are converted to the pulse-type signals at the noise detector section and output from pin 13 (RX unit; IC2).

The NDET signal from the FM IF IC (RX unit; IC2) is applied to the CPU (IC33, pin 40). The CPU analyses the noise condition and controls the AF mute signal via "AFMUTE1" line (IC40, pin 4) to the AF mute switch (IC16, pin 5).

• TONE SIGNALS

The tone squelch circuit detects AF signals and opens the squelch only when receiving a signal containing a matching subaudible tone (CTCSS or DTCS).

The CTCSS signal passes through a low-pass filter circuit (IC8, pins 1, 3, 5, 7, 8, 10), and is then applied to the signal amplifier (IC8, pins 13, 14). The amplified signal is applied to the CTCSS decoder IC (IC29, pin 16) and the detected signal is applied to the CTCSS decoder IC (IC29, pin 16) and the detected signal is applied to the CTCSS decoder IC (IC29, pin 16) and the detected signal is applied to the cTCSS decoder IC (IC29, pin 16) and the detected signal is applied to the cTCSS decoder IC (IC29, pin 16) and the detected signal is applied to the cTCSS decoder IC (IC29, pin 16) and the detected signal is applied to the cTCSS decoder IC (IC29, pin 16) and the detected signal is applied to the cTCSS decoder IC (IC29, pin 16) and the detected signal is applied to the cTCSS decoder IC (IC29, pin 16) and the detected signal is applied to the cTCSS decoder IC (IC29, pin 16) and the detected signal is applied to the cTCSS decoder IC (IC29, pin 16) and the detected signal is applied to the cTCSS decoder IC (IC29, pin 16) and the detected signal is applied to the cTCSS decoder IC (IC29, pin 16) and the detected signal is applied to the cTCSS decoder IC (IC29, pin 16) and the detected signal is applied to the cTCSS decoder IC (IC29, pin 16) and the detected signal is applied to the cTCSS decoder IC (IC29, pin 16) and the detected signal is applied to the cTCSS decoder IC (IC29, pin 16) and the detected signal is applied to the cTCSS decoder IC (IC29, pin 16) and the detected signal is applied to the cTCSS decoder IC (IC29, pin 16) and the detected signal is applied to the cTCSS decoder IC (IC29, pin 16) and the detected signal is applied to the cTCSS decoder IC (IC29, pin 16) and the cTCSS decoder IC20 and the cTCSS decoder IC20 and the cTCSS decoder IC20 and the cTCSS decoder

nal is applied to the CPU (IC 33) via the serial signal line.

The DTCS signal passes through a low-pass filter circuit (IC12, pins 1, 3, 8, 10), and is then applied to the signal amplifier (IC12, pins 12, 14). the amplified signal is applied to the DTCS decoder which is inside the CPU (IC33, pin 52) via the "DTCSI" line.

The 2/5TONE signals are passes through a low-pass filter circuit (IC12, pins 5, 7), and are then applied to the 2/5 TONE decoder which is inside the CPU (IC33, pin 51) via "25TI" line.

The DTMF signal is pass through the DTMF switch IC (IC30 pin 7), and is then applied to the DTMF decoder(IC31). The decoded signal is applied to the CPU (IC33, pins 82, 85, 86). The CPU analyzes the DTMF signal.

The DTMF switch (IC30) selects the signal from telephone line or RX unit.

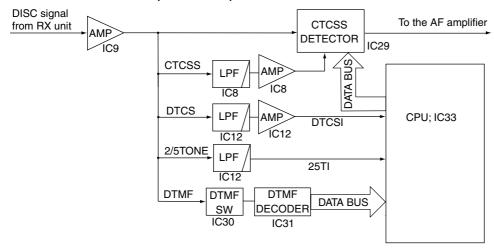
3-2 TRANSMITTER CIRCUITS

3-2-1 AF AMPLIFIER CIRCUIT (LOGIC UNIT)

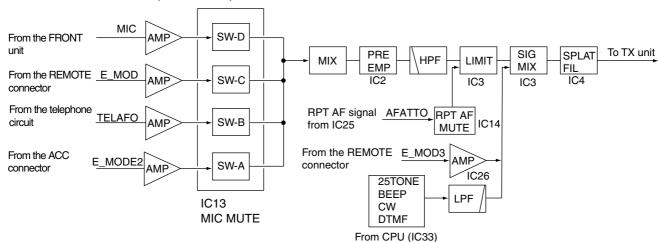
• IN CASE OF THE AF SIGNALS FROM THE MIC JACK

The AF signals from the MIC jack (FRONT unit; J7) are amplified at the AF amplifier (IC1). The amplified signals are mixed with the "E_MOD1", "E_MOD2" and "TELAFO" signals at IC2. The mixed signals pass though the high-pass filter (IC2, pins 1, 2, 6, 7) via the pre-emphasis circuit (IC2, pins 8, 9).

• TONE SIGNALS CIRCUITS (LOGIC UNIT)



• AF AMPLIFIER CIRCUITS (LOGIC UNIT)



The filtered signals are applied to the limiter amplifier (IC3), and are then mixed with the DTMF signal from the CPU (IC33, pin 43) via the TX-signal filter (IC3, pins 8, 10, 12, 14). The mixed signals are applied to the splatter filter (IC4), and are then applied to the PA unit.

• IN CASE OF THE AF SIGNALS FROM THE ANTENNA CONNECTOR

The AF signals (received signals) from the antenna connector (RX unit; J1) are applied to the buffer amplifier (IC9), CTCSS detector (IC29) and AF amplifier (IC6). The amplified signals are applied to the D/A converter IC (IC25, pins 8, 9) to adjust a repeater AF level. The adjusted AF signals pass through the RPT AF mute switch (IC14), and are applied to the limiter amplifier (IC3).

• IN CASE OF THE 2/5TONE SIGNALS

The 2/5TONE signals from the CPU (IC33, pin 43) are applied to the mixer amplifier (IC3) via TX signal filter circuit (IC3, pins 8, 10, 12, 14).

• IN CASE OF THE DTMF SIGNALS FROM DIALER IC

The DTMF from dialer IC (IC47, pin 14) are applied to the mixer amplifier (IC3) via the TX signal filter circuit (IC3, pins 8, 10, 12, 14).

• IN CASE OF THE CTCSS AND DTCS SIGNALS FROM THE CPU

The CTCSS and DTCS signals from the CPU (IC33, pin 44) are applied to the TX-tone filter (IC4, pins 12, 14). The filtered signal are applied to the D/A converter IC (TX unit; IC5 pin 9) to adjust a tone level needed, and are then mixed with AF signal at the mixer amplifier IC (TX unit; IC6).

3-2-2 MODULATION CIRCUIT (TX UNIT)

The modulation circuit modulates the VCO oscillating signal (RF signal) using the AF audio signals.

The filtered signals from the LOGIC unit are applied to the D/A converter (IC5, pin 4) to adjust AF level. The adjusted signals are applied to the mixer amplifier IC (IC6, pin 1) with the CTCSS/DTCS signals.

The mixed signals are applied to the TX VCO circuit to mod-

ulate the oscillated signal (TVCO unit; D5) and modulate the oscillated signal at VCO circuit (TVCO; Q1, D1–D4). The modulated VCO output is amplified at the buffer amplifier (Q1) and is then applied to the drive amplifier circuit on the PA unit.

3-2-3 POWER AMPLIFIER CIRCUIT (PA UNIT)

The power amplifier circuit amplifies the driver signal to an output power level.

The RF signal from the TX unit is applied to the pre-drive (Q4) to amplify the level needed at the power amplifier. The amplified signal passes through the attenuator circuit (R29–R31) and is then applied to the power amplifier (IC2).

The RF signal from the pre-drive (Q4) is applied to the power amplifier (IC2) to obtain 50 W ([IC-FR3100]: 25 W) of RF power.

The amplified signal is passed through a low-pass filter circuit (L6, L7, L20, C1–C3, C48, C73, C98, C100) and APC detector (D2, D4, R7, R8, R20, R21, R25, R26, 58, R36, R37, C78, C79), and is then applied to the TX antenna connector (CHASSIS; J1).

Control voltage for the pre-drive (Q4) and power amplifier (IC2) comes from the APC amplifier (IC1, Q9, Q10) to obtain stable output power. The transmit mute switch (Q7, Q8) controls the pre-drive (Q4) and power amplifier (IC2) when transmit mute is necessary.

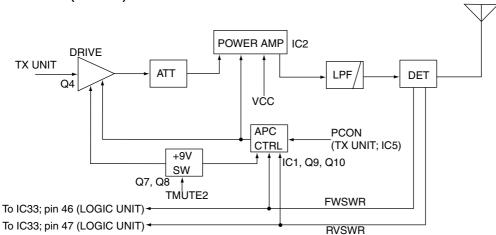
3-2-4 APC CIRCUIT (PA UNIT)

The APC circuit protects the power amplifier from a mismatched output load and stabilizes the output power.

The APC detector circuit detects forward signals and reflection signals at D2 and D4 respectively. The combined voltage become minimum level when the antenna impedance is matched at 50 Ω , and the voltage is increased when it is mismatched.

The detected voltage is applied to the APC amplifier (IC1 pin 3), and the power setting "PCON" signal from the D/A converter (TX unit; IC5), controlled by the CPU (LOGIC unit; IC33), is applied to the the APC amplifier (IC1 pin 1) for reference. When antenna impedance is mismatched, the

• APC CIRCUIT (PA UNIT)



detected voltage exceeds the power setting voltage. Then the output voltage of the APC amplifier IC (IC1, pin 4) controls the input current of the drive amplifier (Q4) and power amplifier IC (IC2, pin 2) to reduce the output power.

3-3 PLL CIRCUITS 3-3-1 GENERAL

Each receiver and transmitter circuit has an independent PLL circuit for controlling frequencies. All PLL circuits are shielded and installed on the RX and TX units.

PLL circuits steadily oscillate the transmit frequency and the receive local frequency. The PLL output frequency is controlled by divided ratio (N-data) of the programmable divider.

3-3-2 RECEIVER PLL CIRCUIT (RX UNIT)

The PLL IC (IC4) which includes in the prescaler, the programmable counter and the phase comparator generates the 1st LO frequency with the VCO circuit (RVCO unit; Q1, D1–D4). The PLL IC sets the divided ratio which bases on N-data from the CPU (LOGIC unit; IC33) to control the programmable counter. The PLL IC compares a phases of the VCO signal with the reference oscillator frequency, and is then applied to the VCO circuit (RVCO unit; Q1, D1–D4).

3-3-3 RECEIVER REFERENCE OSCILLATOR CIRCUIT (RX UNIT)

The 12.8 MHz reference frequency is produced by the oscillator (X3). The frequency is adjusted by the D/A converter IC (LOGIC unit; IC25). The reference frequency is applied to the PLL IC (IC4, pin 1).

3-3-4 RECEIVER VCO CIRCUIT (RVCO UNIT)

The VCO circuit (Q1, D1–D4) generates the receive frequency. The signal is applied to the buffer amplifier (Q2) and is then applied to the PLL IC (RX unit; IC4). The signal is amplified at the amplifiers (RX unit; Q8, Q9) and then passes through the low-pass filter (RX unit; L23, L24, L39, L53, C112–C114, C184, C216, C217) and attenuator (RX unit;

R81, R136, R137). The filtered signal is applied to the 1st mixer circuit (RX unit; IC1) as 1st LO signal.

A part of the signal is applied to the PLL IC (RX unit; IC4) via the amplifier (RX unit; Q14) as RX PLL lock voltage.

3-3-5 TRANSMITTER PLL CIRCUIT (TX UNIT)

The PLL IC (IC2) which includes in the prescaler, the programmable counter and the phase comparator. The PLL IC sets the divided ratio which bases on N-data from the CPU (LOGIC unit; IC33) to control the programmable counter. The PLL IC compares a phases of the VCO signal with the reference oscillator frequency, and is then applied to the VCO circuit (TVCO unit; Q1, D1–D4).

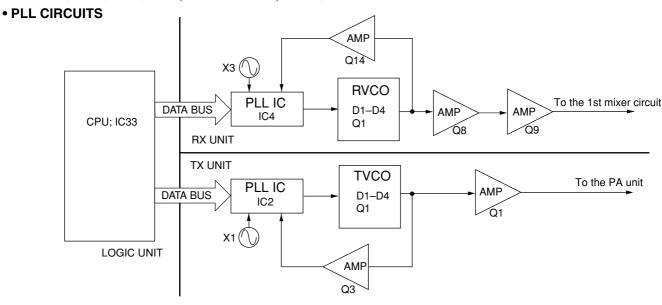
3-3-6 TRANSMITTER REFERENCE OSCILLATOR CIRCUIT (TX UNIT)

The 12.8 MHz reference frequency is produced by the oscillator (X1). The frequency is adjusted by the D/A converter IC (IC5, pin 14). The reference frequency is applied to the PLL IC (IC2, pin 1).

3-3-7 TRANSMITTER VCO CIRCUIT (TVCO UNIT)

The VCO circuit (Q1, D1–D4) generates the transmit frequency. The signal is applied to the buffer amplifier (Q2) and is then applied to the amplifier (TX unit; Q1). The amplified signal is applied to the PA unit.

A part of the signal is applied to the PLL IC (TX unit; IC2) via the amplifier (TX unit; Q3) as TX PLL lock voltage.



3-4 OTHER CIRCUITS

3-4-1 TELEPHONE IF CIRCUIT (LOGIC UNIT)

The signals from the telephone line (FRONT, J13) are applied to the ringer detect circuit (IC48, D1, D5, R131, R143, R145, C100, C103, C375). The detected signals are applied to the CPU (IC33, pin 73) via "RING" line. The "HOOKC" signal from the CPU (IC33, pin 72) and the "DP" signal from IC47 are applied to the hook switch (RL1, RL2) to off-hook.

Received AF signals from the RX unit pass through the high-pass filter (IC9, pins 5, 7, 12, 14), de-emphasis (IC9, pins 1, 2) and low-pass filter circuits (IC10, pins 1, 3, 5, 7, 8, 9). The filtered AF signals are amplified at IC7 (pins 12, 14) and are then applied to the network IC (IC46, pin 16) via T6. The out-put signals from IC46 are applied to the J13 (FRONT unit) via L1, L2.

AF signals from J13 (FRONT unit) are applied to the network IC (IC46, pins 8, 9). The output signals from IC46 (pins 8, 9) are applied to the AF amplifier IC (IC1, pins 1, 2) via T8. Amplified signals pass through the MIC mute switch (IC1, pins 3, 4), the MIC mixer amplifier (IC2, pins 13, 14), the preemphasis circuit (IC2, pins 8, 9), the high-pass filter circuit (IC2, pins 1, 2, 6, 7), limiter amplifier circuit (IC3, pins 1, 2), S-mixer circuit (IC3, pins 6, 7), and splatter filter circuit (IC4, pins 1, 3, 5, 7, 8, 10). The filtered signals are applied to the TX unit.

After off-hook condition, DTMF signal from telephone line is applied to the decoder IC (IC31) to decode the DTMF signal. The DTMF signal is applied to the CPU (IC33) via serial signal line.

The clear down signal is detected at IC45 and is then applied to the CPU (IC33). The "HOOKC" signal from the CPU (IC33, pin 72) and the "DP" signal from IC47 are applied to the hook switch (RL1, RL2) to on-hook.

3-4-2 EEPROM CIRCUIT (LOGIC UNIT)

The detector IC (IC34) detects power supply ON-OFF voltage. The signal from IC34 is applied to IC33 (CPU). IC35, IC36 are reset signal circuit which stabilizes memory data for the EEPROM (IC37).

EEPROM (IC37) memories clone data and adjust setting condition data.

3-4-3 TEMPERATURE DETECT CIRCUIT (LOGIC UNIT)

The temperature detect circuit protects the power amplifier and power supply circuit from high temperature and stabilizes the output power.

Inside temperature of the PA unit is detected at D15 (PA unit) and is then applied to the amplifier IC (PA unit; IC3). The amplified signal is applied to the CPU (IC33) to analyze the temperature via IC32.

Inside temperature of the REG unit is detected at D6 (REG unit) and is then applied to the amplifier (REG unit; IC9). The amplified signal applied to the CPU (IC33) to analyze the temperature via IC32.

IC32 selects "PATEMP" or "REGTEMP" signals from the PA or REG unit.

3-5 POWER SUPPLY CIRCUITS 3-5-1 LOGIC AND REG UNITS VOLTAGE LINES

Line	Description
PS 15V	The voltage from the DC power unit (CHASSIS; EP1).
VCC1	The same voltage as the PS 15V line which is controlled by the power switch.
M9V	Common 9 V for converted from the VCC1 line by the M9V regulator circuit (REG unit; IC1, Q8, Q9). The voltage is applied to the TX and RX units.
L9V	Common 9 V converted from the VCC1 line by the L9V regulator circuit (REG unit; IC2).
A5V	Common 5 V converted from the L9V line by the A5V regulator circuit (REG unit; IC3).
L5V	Common 5 V converted from the L9V line by the L5V regulator circuit (LOGIC unit; IC38, Q48, D43).
C5V	Common 5 V converted from the L9V line by the C5V regulator circuit (LOGIC unit; IC38, Q45, D13).
TEL5V	Common 5 V converted from the M9V line by the TEL5V regulator circuit (LOGIC unit; IC11).

3-5-2 RX UNIT VOLTAGE LINES

Line	Description
+5V	Common 5 V converted from the M9V line by the +5V regulator circuit (RX unit; IC3).
+6V	Common 6 V converted from the M9V line by the +6V regulator circuit (RX unit; IC7).
R5V	Receive 5 V converted from the R9V line by the R5V regulator circuit (RX unit; IC6).
R9V	Receive 9 V controlled by the R9V regulator circuit (RX unit; Q15) using "R9C" signal from IC39 (LOGIC unit).
V9V	Common 9 V converted from the M9V line by the V9V regulator circuit (RX unit; Q24).

3-5-3 TX UNIT VOLTAGE LINES

Line	Description
T5V	Transmit 5 V converted from the M9V line by the T5V regulator circuit (TX unit; IC1).
T6V	Transmit 6 V converted from the M9V line by the T6V regulator circuit (TX unit; IC4).
V9V	Common 9 V converted from the M9V line by the V9V regulator circuit (TX unit; Q6).

3-6 PORT ALLOCATIONS

3-6-1 EXPANDER IC (LOGIC UNIT; IC39)

Pin number	Port name	Description
4	BASL	Outputs the control signal for "BASE" LED on the FRONT unit.
5	RMTL	Outputs the control signal for "REMOTE" LED on the FRONT unit.
6	BUSYL	Outputs the control signal for "BUSY" LED on the FRONT unit.
7	TXL	Outputs the control signal for "TX" LED on the FRONT unit.
12	D5C	Outputs the control signal for the D5V on the FRONT unit.
13	PROGL	Outputs the control signal for "P" LED on the FRONT unit.
14	DCL	Outputs the control signal for "DC" LED on the FRONT unit.

3-6-2 EXPANDER IC (LOGIC UNIT; IC40)

Pin number	Port name	Description
4	AFMUTE1	Outputs the speaker mute signal for the received AF.
5	AFMUTE2	Outputs the speaker mute signal for the received 2/5TONE and DTMF signals.
6	MICMUTE1	Outputs the MIC mute signal for the hand microphone.
7	MICMUTE2	Outputs the MIC mute signal for the REMOTE connector.
11	TELBMR	Outputs the pulse control signal for the telephone dialer IC
12	TELMUTE2	Outputs the MOD mute signal for AF signal from the telephone line.
13	TELMUTE1	Outputs the telephone mute signal for the received AF signal.
14	MICMUTE3	Outputs the MIC mute signal for the ACC connector.

3-6-3 EXPANDER IC (LOGIC UNIT; IC41)

Pin number	Port name	Description
5	R/BSW	Outputs the switch control signal for the received AF signal to the microphone amplifier.
6	W/NS	Outputs the control signal for narrow/wide bands.
7	R9C	Outputs the control signal for the +9V regulator on the RX unit.
12	M9C	Outputs the control signal for the M9V regulator on the Rx unit and TX unit.
13 14	OPT1 OPT3	Output the detection signals whether optional boards are installed or not.

3-6-4 D/A CONVERTER IC (LOGIC UNIT; IC25)

Pin number	Port name	Description
6	DA2STB	Input port for the strobe signal.
7	SCK	Input port for the clock signal.
8	SDTO	Outputs the serial data to the CPU (LOGIC unit; IC33).
9	AFFTTI	Input port for the received AF signal.
10	AFATTO	Outputs the adjusted AF signal for the repeater output.
14	RVCON	Outputs the adjustment signal for the PLL reference frequency on the RX unit.
15	TUNE	Outputs the BPF tuning signal to the RX unit.

3-6-5 D/A CONVERTER IC (TX UNIT; IC5)

B. B.			
Pin number	Port name	Description	
1	ETONE	Input port for the TONE signal from the ACC connector.	
2	ETONEO	Outputs the adjusted external TONE signal.	
3	TXAFO	Outputs the TX AF signal to the TX modulation.	
4	TXAF	Input port for the AF signal.	
6	DA1STB	Input port for the strobe signal.	
7	SCK	Input port for the clock signal.	
8	SDTO	Outputs the serial data signal to the CPU (LOGIC unit; IC33).	
9	TONE	Input port for the TONE signal.	
10	TONEO	Outputs the adjusted TONE signal.	
11	PCON	Outputs the TX power control signal.	
14	TVCON	Outputs the adjustment signal for the TX unit PLL reference frequency.	
15	MODC	Outputs the control signal for modulation balance.	
21	МІХО	Input port for the mixed signal with the external signal, TX AF signal and internal signals.	
22	REFMOD	Outputs the adjustment signal for TONE balance.	
23	MOD	Outputs the adjusted AF signal for the TX modulation.	
24	MIXO	Input port for the mixed signal with the ETONE, TX AF and TONE signals.	

3-6-6 CPU (LOGIC UNIT; IC33)

5-0-0 Of 0 (LOGIC 01411, 1033)						
Pin number	Port name	Description				
1	RPLSTB	Outputs the strobe signal for the PLL IC on the RX unit.				
2	TPLSTB	Outputs the strobe signal for the PLL IC on the TX unit.				
3	TUNLK	Input port for the unlock signal from the PLL IC on the TX unit.				
4	TMUTE	Outputs the TX mute signal for the TX unit.				
5	TMUTE2	Outputs the TX mute signal for the PA unit.				
8	M_PTT	Input port for the PTT switch signal from the microphone.				
9	SPMUTE	Input port for [SPMUTE] switch.				
10	REMOTE	Input port for [REMOTE] switch.				
11	R/B	Input port for [R/B] switch.				
13	MBEEP	Outputs the BEEP signal for modulation.				
15 MONI		Input port for [MONI] switch.				
16	CHUP	Input port for [CHUP] switch.				
17	CHDN	Input port for [CHDN] switch.				
18	DISP	Input port for [DISP] switch.				
19	PROG	Input port for [PROG] switch.				
26	COAXSW	Outputs the antenna switching signal.				
27	CWO	Outputs the CW signal for transmit.				
28	KBEEP	Outputs the beep audio signals to the speaker.				
29	M/SO	Outputs the master/slave switching signal.				
30	M/SI	Input port for the master/slave switching signal.				
33	E_PTT	Input port for the PTT signal form the REMOTE connector.				
34	E_PT2	Input port for PTT signal from the ACC connector.				
35–39	D0-D4	Input port for the memory channel control signal.				
40	NDET	Input port for the noise signal from the FM IF IC (RX unit; IC2).				
41	SW	Outputs the temperature or PLL lock voltage switching signal.				
43	2/5T DTMFO	Outputs the 2/5TONE and DTMF signals.				
44	CTDTO	Outputs the CTCSS/DTCS signals.				
45	PSD	Input port for the detection signal from the REG unit.				
46	FWSWR	Input port for FW SWR signal from the PA unit.				

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CPU-Continued

CPU-Continued					
Pin number	Port name	Description			
89	PE3STB	Outputs the strobe signal for the port expander IC (LOGIC unit; IC41).			
90	PE2STB	Outputs the strobe signal for the port expander IC (LOGIC unit; IC40).			
91	PE1STB	Outputs the strobe signal for the port expander IC (LOGIC unit; IC39).			
95	D2STB	Outputs the strobe signal for the D/A converter IC (LOGIC unit; IC25).			
96	D1STB	Outputs the strobe signal for the D/A converter IC (TX unit; IC5).			
97	SDTO	Outputs the serial data signal for the PLL IC (RX unit; IC4, TX unit; IC2), dialer IC (LOGIC unit; IC47), port expander IC (LOGIC unit; IC39–IC41) and optional boards.			
98	SCK	Outputs the clock signal for the PLL IC (RX unit; IC4, TX unit; IC2), dialer IC (LOGIC unit; IC47), port expander IC (LOGIC unit; IC39–IC41) and optional boards.			
99	RUNLK	Input port for the unlock signal from the PLL IC (RX unit; IC4).			
100	C/DSW	Outputs the control signal for the TX-TONE filter (LOGIC unit; IC4).			

SECTION 4 ADJUSTMENT PROCEDURES

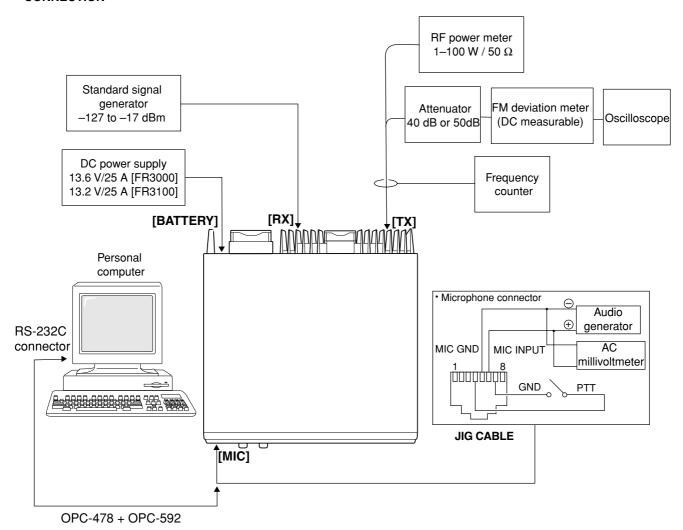
4-1 PREPARATION

Some adjustments must be performed on the "ADJUSTMENT MODE". CS-FR3000 CLONING SOFTWARE, OPC-478 CLONING CABLE and OPC-592 ADAPTOR CABLE are required when entering the adjustment mode. Refer to the next page in detail.

■ REQUIRED TEST EQUIPMENT

EQUIPMENT	GRADE	GRADE AND RANGE		GRADE	AND RANGE
DC power supply	Output voltage	: 13.6 V DC [FR3000] 13.2 V DC [FR3100]	Audio generator	Frequency range Output level	: 300–3000 Hz : 1–500 mV
	Current capacity Measuring range	: 25 A or more : 1–100 W	Attenuator	Power attenuation Capacity	: 40 or 50 dB : 100 W or more
RF power meter (terminated type)	Frequency range Impedance SWR	: 100–300 MHz : 50 Ω : Less than 1.2 : 1	Standard signal generator (SSG)	Frequency range Output level	: 120–600 MHz : 0.1 µV–32 mV (–127 to –17 dBm)
Frequency counter	Frequency range Frequency accuracy	: 0.1-600 MHz : ±1 ppm or better	AC millivoltmeter	Measuring range	: 10 mV–10 V
	Sensitivity	: 100 mV or better	Oscilloscope	Frequency range Measuring range	: DC-20 MHz : 0.01-20 V
FM deviation meter	Frequency range Measuring range	: DC-600 MHz : 0 to ±5 kHz	Digital multimeter	Input impedance	: 10 MΩ/V DC or better

CONNECTION



■ BEFORE ENTERING THE ADJUSTMENT MODE

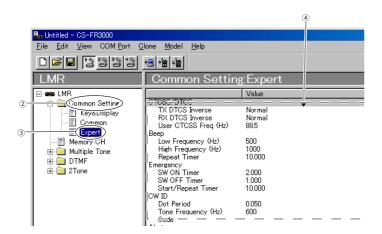
CAUTION!: Need to back up the original memory data using CS-FR3000 before cloning the adjustment frequencies.

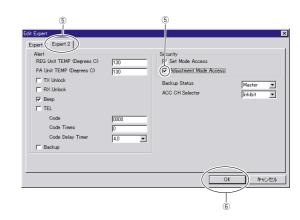
When program the adjustment frequencies into the repeater, the repeater's memories channels will be overwritten the data and deleted original memory data at the same time.

Need to do cloning "Adjustment Mode Access" permitting and adjustment frequency into the CPU using CS-FR3000 before entering the adjustment mode. Otherwise, the repeater can not enter the adjustment mode.

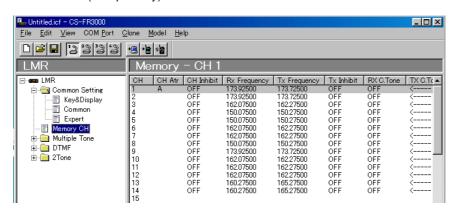
■ PROCESS TO THE PERMIT "ADJUSTMENT MODE ACCESS"

- 1) Run the CS-FR3000 CLONING SOFTWARE.
- 2 Open the "Common Setting" folder .
- 3 Click the "Expert" card on the tree view window.
- 4 Double-click somewhere on the Common setting screen window, then appear the "Edit Expert" window.
- (5) Click the "Expert 2" tab, then click the "Adjustment Mode Access" check box.
- 6 Click "OK" button.
- 7 Click the "Memory CH" card on the tree view window.
- 8 Input adjustment frequencies as following page 4-4.
- 9 Cloning to the repeater then the repeater can be enter the adjustment mode.
 Show the next page to enter the adjustment mode.



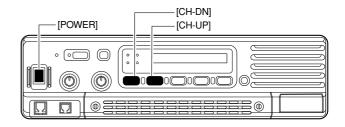


MEMORY CHANNEL SCREEN (Sample only)



■ ENTERING THE ADJUSTMENT MODE

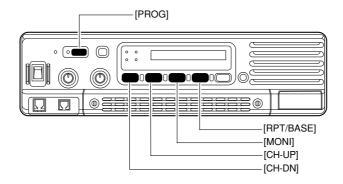
- 1 Turn the power OFF.
- 2 While pushing and holding both [CH-DN] and [CH-UP], turn ON. Never release [CH-DN] and [CH-UP] until 1
- 3 Push [CH-DN] button, then sounds 2 beep audio.



■ OPERATING IN THE ADJUSTMENT MODE

• Change the item (including frequency) (+1). : Push [CH-UP] button. • Change the item (including frequency) (-1). : Push [CH-DN] button. • Adjust the specified value (+1). : Push [PRT/BASE] button. • Adjust the specified value (-1). : Push [MONI] button. • Change the TX and RX's condition. : Push [PROG] button. Change the condition TX reference frequency to RX reference frequency.

Change the condition TX "HIGH POWER" to TX "LOW POWER".



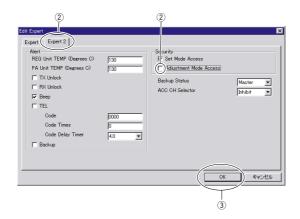
■ EXITING THE ADJUSTMENT MODE

- 1) Turn the power OFF.
- 2 While pushing and holding and [CH-UP], turn ON. Never release [CH-UP] until 1 short beep sounds.
- 3 Push [CH-UP] button, then sounds 2 beep audio.

■ AFTER FINISHING ADJUSTMENT

CAUTION!: When the adjustment is finished, the repeater need to be canceled adjustment mode. Otherwise the repeater does not work properly.

- ① Perform the step ① to ④, described in the PROCESS TO PERMIT "ADJUSTMENT MODE ACCESS" (see page 4-2).
- ② Click the "EXPERT 2" tag, then clear the check box for the "Adjustment Mode Access".
- 3 Click "OK" button, then cloning with the original memory data.

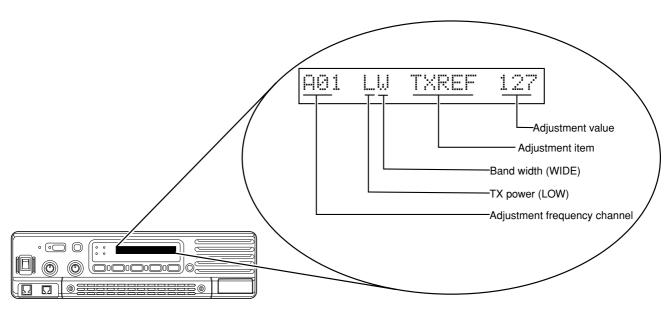


■ ADJUSTMENT MODE CH LIST

СН	[Other] (MHz)	[GEN74] (MHz)	LCD DISPLAY	W/N	ADJUSTMENT
A01	173.925 (RX) 173.725 (TX)	171.925 (RX) 171.725 (TX)	A01 LW TXREF 127	W	TVCO/RVCO adjustment. Reference frequency adjustment.
A02	173.925 (RX) 173.725 (TX)	171.925 (RX) 171.725 (TX)	A02 LW HRTUN 115	W	RX sensitivity adjustment.
A03	162.075 (RX) 162.275 (TX)	160.075 (RX) 160.275 (TX)	A03 LW MRTUN 088	W	RX sensitivity adjustment.
A04	150.075 (RX) 150.275 (TX)	148.075 (RX) 148.275 (TX)	A04 LW LRTUN 055	W	RX sensitivity adjustment.
A05	150.075 (RX) 150.275 (TX)	148.075 (RX) 148.275 (TX)	A05 LW RPTSQL 150	W	RPT SQL adjustment.
A06	162.075 (RX) 162.275 (TX)	160.075 (RX) 160.275 (TX)	A06 HW POWER 166	W	TX power adjustment.
A07	162.075 (RX) 162.275 (TX)	160.075 (RX) 160.275 (TX)	A07 LW M DEV 143	W	TX modulation adjustment.
A08	150.075 (RX) 150.275 (TX)	148.075 (RX) 148.275 (TX)	A08 LW LMODC 073	W	TX modulation adjustment.
A09	173.925 (RX) 173.725 (TX)	171.925 (RX) 171.725 (TX)	A09 LW HMODC 191	W	TX modulation adjustment.
A10	162.075 (RX) 162.275 (TX)	160.075 (RX) 160.275 (TX)	A10 LW CTCDEV 134	N	CTCSS modulation adjustment.
A11	162.075 (RX) 162.275 (TX)	160.075 (RX) 160.275 (TX)	A11 LW DTCADJ 159	W	DTCS modulation adjustment.
A12	162.075 (RX) 162.275 (TX)	160.075 (RX) 160.275 (TX)	A12 LN CTCDEV 062	N	CTCSS modulation adjustment. (NARROW)
A13	160.275 (RX) 165.275 (TX)	158.275 (RX) 163.275 (TX)	A13 LW RPTAF 141	W	RPT modulation adjustment. (WIDE)
A14	160.275 (RX) 165.275 (TX)	158.275 (RX) 163.275 (TX)	A14 LN RPTAF 126	N	RPT modulation adjustment. (NARROW)

[Other]: 150–174 MHz version, [GEN74]: 148–172 MHz version LCD display's detail as shown below. A number of 3 figures is a adjustment value (sample).

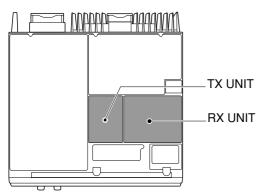
■ EXPLANATION OF LCD DISPLAY IN THE ADJUSTMENT MODE



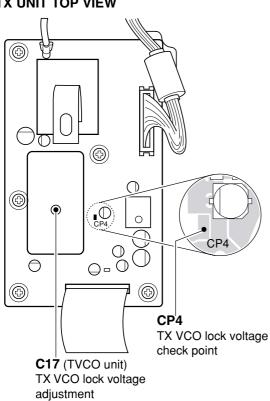
4-2 PLL ADJUSTMENT

ADJUSTMEN	ıŦ	ADJUSTMENT CONDITIONS	ı	MEASUREMENT	VALUE	ADJUSTMENT	
ADJUSTWEN	41	ADJUSTMENT CONDITIONS	UNIT LOCATION		VALUE	UNIT	ADJUST
TX VCO LOCK VOLTAGE	1	• LCD display : A01 LW TXREF 127 • Transmitting	TX	Connect the digital multi meter or oscilloscope to check point CP4.	4.0 V	TVCO	C17
RX VCO LOCK VOLTAGE	1	• LCD display : A01 LW TXREF 127 • Receiving	RX	Connect the digital multi meter or oscilloscope to check point CP3.	4.0 V	RVCO	C17
REFERENCE FREQUENCY	1	 Wait for 5 minutes after power ON. LCD display : AØ1 LW TXREF Connect the RF power meter or 50 Ω dummy load to the [TX] antenna connector. Transmitting 	panel	Loosely couple a frequency counter to the [TX] antenna connector.	[GEN74]	FRONT	[PRT/BASE] /[MONI]
	2	Push the [PROG] button LCD display: A01 LW RXREF Receiving	RX	Connect the frequency counter to check point CP2.	140.2750 MHz [GEN74] 142.2750 MHz [Other]	FRONT	[PRT/BASE] /[MONI]

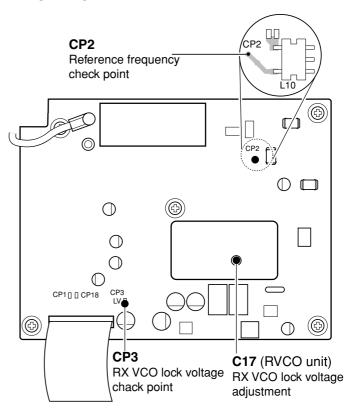
• IC-FR3000 TOP VIEW



• TX UNIT TOP VIEW



• RX UNIT TOP VIEW



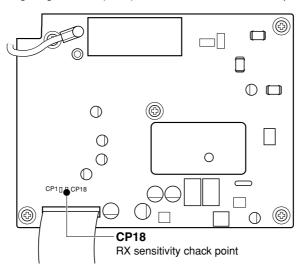
4-3 SOFTWARE ADJUSTMENT

Select an item using [CH-UP] / [CH-DN] buttons, then set specified value using [RPT/BASE] / [MONI] buttons on the FRONT PANEL.

AD ILICTMENT	-	ADJUSTMENT CONDITION		MEASUREMENT	VALUE
ADJUSTMEN	ı	ADJUSTMENT CONDITION		LOCATION	VALUE
RX SENSITIVITY (HIGH FRQ.)	1	• LCD display : A02 LW HRTUN • Connect the standard signal generator to the [RX] antenna connector and set as: Frequency : 171.9250 MHz [GEN74] 173.9250 MHz [Other] Level : 32 µV* (-77 dBm) Modulation : 1 kHz Deviation : ±3 kHz • Receiving	RX	Connect the digital multi meter or oscilloscope to check point CP18.	Maximum voltage
(MID FRQ.)	2	LCD display : A03 LW MRTUN Connect the standard signal generator to the [RX] antenna connector and set as: Frequency : 160.0750 MHz [GEN74] 162.0750 MHz [Other] Receiving			Maximum voltage
(LOW FRQ.)	3	LCD display : AØ4 LW LRTUN Connect the standard signal generator to the [RX] antenna connector and set as: Frequency : 148.0750 MHz [GEN74]			Maximum voltage
REPEATER SENSITIVITY		 LCD display : AØ5 LW RPTSQL Connect a standard signal generator to the [RX] antenna connector and set as: Connect the RF power meter or 50 Ω dummy load to the [TX] antenna connector. Frequency : 148.0750 MHz [GEN74] 150.0750 MHz [Other] 150.0750 MHz [O	FRONT	Speaker	Squelch open

^{*}The output level of the standard signal generator (SSG) is indicated as the SSG's open circuit.

• RX UNIT TOP VIEW



SOFTWARE ADJUSTMENT – continued

Select an item using [CH-UP] / [CH-DN] buttons, then set specified value using [RPT/BASE] / [MONI] buttons on the FRONT PANEL.

AD ILICTMENT	_	AD ILICTMENT CONDITION		MEASUREMENT	VALUE	
ADJUSTMENT	ı	ADJUSTMENT CONDITION	UNIT	LOCATION	VALUE	
OUTPUT POWER (HI)	1	LCD display : A@6 HW POWER Operating freq. : 160.2750 MHz [GEN74] 162.2750 MHz [Other] Connect the RF power meter to the [TX] antenna connector. Transmitting	Rear panel	Connect the RF power meter to the [TX] antenna connector.	50.0 W [Other] 25.0 W [EUR2], [FRG2]	
(LOW)	2	Push the [PROG] button LCD display : AØ6 LW POWER Operating freq. : 160.2750 MHz [GEN74] 162.2750 MHz [Other] Transmitting			10.0 W [Other] 5.0 W [EUR2], [FRG2]	
DEVIATION		LCD display : #07 LU M DEU Operating freq. : 160.2750 MHz [GEN74] 162.2750 MHz [Other] IF bandwidth : Wide Connect the audio generator to the [MIC] jack through the JIG cable and set as: 1.0 kHz/40 mVrms Set an FM deviation meter as: HPF : OFF LPF : 20 kHz De-emphasis: OFF Detector : (P-P)/2 Transmitting	Rear panel	Connect the FM deviation meter to the [TX] antenna connector through the attenuator.	±4.4 kHz [Other] ±3.5 kHz [FRG2]	
MODULATION BALANCE (LOW FRQ.)	1	LCD display : A@8 LW LMODC Operating freq. : 148.2750 MHz [GEN74]	Rear panel	Connect the FM deviation meter to the [TX] antenna connector through the attenuator.	±4.4 kHz [Other] ±3.5 kHz [FRG2]	
(HIGH FRQ.)	2	LCD display : A09 LW HMODC Operating freq. : 171.7250 MHz [GEN74] 173.7250 MHz [Other] Transmitting			±4.4 kHz [Other] ±3.5 kHz [FRG2]	

^{*}The output level of the standard signal generator (SSG) is indicated as the SSG's open circuit.

SOFTWARE ADJUSTMENT – continued

Select an item using [CH-UP] / [CH-DN] buttons, then set specified value using [RPT/BASE] / [MONI] buttons on the FRONT PANEL.

AD ILICTMEN	_	AD HIGHMENT CONDITION		MEASUREMENT	VALUE	
ADJUSTMEN	•	ADJUSTMENT CONDITION	UNIT	LOCATION	VALUE	
CTCSS DEVIATION (WIDE)	ATION • Operating freq.: 160.2750 MHz [GEN74] panel to the [TX] antenna connector		±0.65 kHz [Other] ±0.52 kHz [FRG2]			
(NARROW)	2	LCD display : A12 LN CTCDEU Operating freq : 160.2750 MHz [GEN74]			±0.35 kHz	
DTCS MODULATION BALANCE		LCD display : A11 LW DTCADJ Operating freq. : 160.2750 MHz [GEN74]	Rear panel	Connect the FM deviation meter with an oscilloscope to the [TX] antenna connector through the attenuator.	Set to flat wave form	
REPEATER DEVIATION (WIDE)	1	LCD display : A13 LW RPTAF Operating freq : 158.2750 MHz (RX) [GEN74] 160.2750 MHz (TX) [GEN74] 160.2750 MHz (RX) [Other] 162.2750 MHz (TX) [Other] 162.2750 MHz (TX) [Other] Connect the standard signal generator to the RX antenna connector and set as: Level : 1 mV* (-47 dBm) Modulation : 1 kHz Deviation : ±3 kHz [Other] : ±2.4 kHz [FRG2] Transmitting	Rear panel	Connect the FM deviation meter to the [TX] antenna connector through the attenuator.	±3.0 kHz [Other] ±2.4 kHz [FRG2]	
(NARROW)	2	• LCD display : A14 LN RPTAF • Operating freq : 158.2750 MHz (RX) [GEN74] 160.2750 MHz (TX) [GEN74] 160.2750 MHz (RX) [Other] 162.2750 MHz (TX) [Other]			±1.5 kHz	

^{*}The output level of the standard signal generator (SSG) is indicated as the SSG's open circuit.

SECTION 5 PARTS LIST

[REG UNIT]

ORDER RFF **DESCRIPTION** Μ. NO. NO. IC1 1180001320 IC NJM7809FA S.IC NJM7809DL1A-TE IC2 1180002290 S.IC IC3 1180001860 TA78M05F (TE16L) В IC4 1180002480 SREG TA78DL12AF (TE16L) Т В TA78L08F (TE12R) IC6 1180001540 S.IC TA75S393F (TE85R) IC7 1110002860 S.IC Т 1110002400 S.IC NJM2107F-TE1 IC9 IC11 1110002750 S.IC TA75S01F (TE85R) Т Q1 1590003110 FET 2SJ533 1590003110 Q4 2SJ533 FET S.TRANSISTOR 2SD1664 T1000 Ω5 1540000550 S.TRANSISTOR DTC144EE TL В Q7 1590001940 Q8 1590003030 2SJ553STR В Q9 1590001940 S.TRANSISTOR DTC144EE TL В 1750000550 S.DIODE 1SS355 TE-17 D2 В D3 DIODE 1790000700 DSA3A1 D4 1710001170 DIODE FCH30A03L D6 1790000720 DIODE MA29W-B Т D7 1710001170 DIODE FCH30A03L Т D8 1730002340 S.ZENER MA8047-M (TX) В S RESISTOR FB.I3GEY.I 473 V (47 kO) R3 7030003640 В R14 7100000830 RESISTOR Т 5SG 3.3 Ω R16 7030003240 S.RESISTOR ERJ3GEYJ 220 V (22 Ω) В S.RESISTOR 7030003240 ERJ3GEYJ 220 V (22 Ω) B T R17 R18 7030003560 S.RESISTOR ERJ3GEYJ 103 V (10 kΩ) R19 ERJ3GEYJ 103 V (10 kΩ) Т 7030003560 S.RESISTOR R23 7030003570 S.RESISTOR ERJ3GEYJ 123 V (12 kΩ) Т ERJ3GEYJ 392 V (3.9 kΩ) R24 7030003510 S.RESISTOR В R27 7030003420 S.RESISTOR ERJ3GEYJ 681 V (680 Ω) B T R30 7030003450 S.RESISTOR ERJ3GEYJ 122 V (1.2 kΩ) R31 7030003200 ERJ3GEYJ 100 V (10 Ω) S.RESISTOR Т R32 7030003560 S.RESISTOR ERJ3GEYJ 103 V (10 kΩ) R33 7030003510 S.RESISTOR ERJ3GEYJ 392 V (3.9 kΩ) Т R34 7030003560 S.RESISTOR ERJ3GEYJ 103 V (10 kΩ) T T ERJ3GEYJ 223 V (22 kΩ) R35 7030003600 S.RESISTOR T R36 7030003680 S.RESISTOR ERJ3GEYJ 104 V (100 kΩ) S.RESISTOR R37 7030003200 ERJ3GEYJ 100 V (10 Ω) Т R38 7030003560 S.RESISTOR ERJ3GEYJ 103 V (10 kΩ) Т R39 7030003560 S.RESISTOR ERJ3GEYJ 103 V (10 kΩ) T T R40 S.RESISTOR ERJ3GEYJ 103 V (10 kΩ) 7030003560 R41 7030003620 S.RESISTOR ERJ3GEYJ 333 V (33 kΩ) R42 7030003200 S.RESISTOR ERJ3GEYJ 100 V (10 Ω) Т R58 7030003560 S RESISTOR ERJ3GEYJ 103 V (10 kΩ) В 7030003600 S.RESISTOR ERJ3GEYJ 223 V (22 kΩ) B T R59 ERJ3GEYJ 102 V (1 kΩ) R60 7030003440 S.RESISTOR R61 7030003640 S.RESISTOR ERJ3GEYJ 473 V (47 kΩ) R62 7030010510 S.RESISTOR ERJ1TYJ 8R2U (8.2 Ω) В B B R64 7030003240 S RESISTOR ERJ3GEYJ 220 V (22 Ω) ERJ3GEYJ 472 V (4.7 kΩ) 7030003520 R65 S.RESISTOR S.RESISTOR ERJ3GEYJ 223 V (22 kΩ) T 7030003600 R67 7030003320 S.RESISTOR ERJ3GEYJ 101 V (100 Ω) Т R68 7030003320 S.RESISTOR ERJ3GEYJ 101 V (100 Ω) Т 4030006860 S.CERAMIC C1608 JB 1H 102K-T C5 C6 C7 4030006860 S CERAMIC C1608 JB 1H 102K-T Т **ELECTROLYTIC** 4510007690 LXZ25VB2200 T 4510007690 **ELECTROLYTIC** LXZ25VB2200 C9 4510007690 **ELECTROLYTIC** LXZ25VB2200 Т C11 4030006860 S.CERAMIC В C1608 JB 1H 102K-T C15 4030006860 S CERAMIC C1608 JB 1H 102K-T В 4030006860 S.CERAMIC C1608 JB 1H 102K-T В В C19 S.CERAMIC C1608 JB 1H 102K-T 4030006860 C20 4030006860 В S.CERAMIC C1608 JB 1H 102K-T C22 4030006860 S.CERAMIC C1608 JB 1H 102K-T B T C23 4030006860 S CFRAMIC C1608 JB 1H 102K-T C24 4550006770 S.TANTALUM TEESVD2 1C 476M-12R Т C25 4030006860 S.CERAMIC C1608 JB 1H 102K-T T C26 4510007660 **ELECTROLYTIC** LXZ25VB100 C27 C28 4030006860 S CERAMIC C1608 JB 1H 102K-T T T S.ELECTROLYTIC EEVHB1C470P 4510007650 C29 4030006860 S.CERAMIC C1608 JB 1H 102K-T В C1608 JB 1H 102K-T Т C31 4030006860 S.CERAMIC C33 4030006900 S.CERAMIC C1608 JB 1H 103K-T В S.ELECTROLYTIC EEVHB1C220UR C34 4510007570 Т

[REG UNIT]

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REF NO.	ORDER NO.		DESCRIPTION	M.
C35 C36 C37	4030006900 4030006860 4510007660	S.CERAMIC S.CERAMIC ELECTROLYTIC	C1608 JB 1H 103K-T C1608 JB 1H 102K-T LXZ25VB100	B T T
C38 C41 C42	4510007660 4510007570 4030006900	S.ELECTROLYTIC S.ELECTROLYTIC S.CERAMIC	LXZ25VB100 EEVHB1C220UR C1608 JB 1H 103K-T	T T T
C43 C45 C47	4030006900 4030006900 4510007660	S.CERAMIC S.CERAMIC ELECTROLYTIC	C1608 JB 1H 103K-T C1608 JB 1H 103K-T LXZ25VB100	T T T
C48 C49 C50	4030006860 4510007570 4030006900	S.CERAMIC S.ELECTROLYTIC S.CERAMIC	C1608 JB 1H 102K-T EEVHB1C220UR C1608 JB 1H 103K-T	B T T
C51 C52	4030006900 4030017490	S.CERAMIC S.CERAMIC	C1608 JB 1H 103K-T C1608 JB 1A 105K-T	T T
RL2	6330001680	RELAY	ACB32101	Т
J13 J14 J16	6510018970 6510022620 6510018960	S.CONNECTOR S.CONNECTOR S.CONNECTOR	B4B-PH-SM3-TB 10FMN-BMTTR-A-TBT B2B-PH-SM3-TB	T T T
J17 J18	6510018960 6510018960	S.CONNECTOR S.CONNECTOR	B2B-PH-SM3-TB B2B-PH-SM3-TB	T
F1 F2 F3	5220000300 5220000300 5210000850	HOLDER HOLDER FUSE	1A5600 1A5600 ATC-20	T T T
F4 F5 F6	5220000300 5220000300 5210000850	HOLDER HOLDER FUSE	1A5600 1A5600 ATC-20	T T T
S1	2260001510	SWITCH	RXE160	Т
W1 W2 W3 W4	7120000490 7120000490 7120000490 7120000490	JUMPER JUMPER JUMPER JUMPER	ERD25T0 ERD25T0 ERD25T0 ERD25T0	T T T
EP1 EP2 EP3 EP4 EP5 EP6	0910056242 6910012350 6910011340 6910011340 6910011340 6910011340	PCB S.BEAD TERMINAL TERMINAL TERMINAL TERMINAL	B 5998B MMZ1608Y 102BT OT-010 M3 OT-010 M3 OT-010 M3 OT-010 M3	T T T T
EP7 EP8 EP9 EP10	6910011340 6910011340 6910011340 6910011340	TERMINAL TERMINAL TERMINAL TERMINAL	OT-010 M3 OT-010 M3 OT-010 M3 OT-010 M3 OT-010 M3	T T T
M =Mo	unted side (T:	Mounted on the To	p side, B: Mounted on the Bottom	side)

[FR3000]: IC-FR3000, [FR3100]: IC-FR3100

[FRONT UNIT]

[FRONT UNIT]					
NO.	NO.		DESCRIPTION	M.	
Q1	1530002060	S.TRANSISTOR	2SC4081 T106 R	Т	
D1	1750000930	S.DIODE	NNCD8.2C-T1	Т	
D2	1750000930	S.DIODE	NNCD8.2C-T1	Ť	
D3	1750000930	S.DIODE	NNCD8.2C-T1	Ť	
L1	6200001620	S.COIL	ELJFC 1R0K-F	Т	
R1 R2	7030003400 7030003200	S.RESISTOR S.RESISTOR	ERJ3GEYJ 471 V (470 Ω) ERJ3GEYJ 100 V (10 Ω)	T T	
R3	7030003200	S.RESISTOR	ERJ3GEYJ 100 V (10 Ω)	<u>+</u>	
R8	7030001150	S.RESISTOR	MCR50JZHJ 150 Ω (151)	В	
R9 R10	7030001150 7030001160	S.RESISTOR S.RESISTOR	MCR50JZHJ 150 Ω (151) MCR50JZHJ 180 Ω (181)	B B	
R11	7030001160	S.RESISTOR	MCR50JZHJ 150 Ω (151)	В	
R12	7030001150	S.RESISTOR	MCR50JZHJ 150 Ω (151)	В	
R13 R15	7030001150 7030003460	S.RESISTOR S.RESISTOR	MCR50JZHJ 150 Ω (151) ERJ3GEYJ 152 V (1.5 kΩ)	B B	
R17	7030003460	S.RESISTOR	MCR100JZHJ 47 Ω (470)	В	
R18	7030008220	S.RESISTOR	MCR100JZHJ 47 Ω (470)	В	
R19 R21	7540000240 7030003640	S.ABSORBER S.RESISTOR	KU10R29N-4063 ERJ3GEYJ 473 V (47 kΩ)	T B	
R22	7030003040	S.RESISTOR	ERJ3GEYJ 473 V (47 kΩ)	В	
R23	7030003640	S.RESISTOR	ERJ3GEYJ 473 V (47 kΩ)	В	
R24 R26	7030003640 7030003640	S.RESISTOR S.RESISTOR	ERJ3GEYJ 473 V (47 kΩ) ERJ3GEYJ 473 V (47 kΩ)	B T	
R27	7030010910	S.RESISTOR	ERJ1TYJ 150U (15 Ω)	В	
R28	7030010910	S.RESISTOR	ERJ1TYJ 150U (15 Ω)	В	
C1	4030006860	S.CERAMIC	C1608 JB 1H 102K-T	В	
C2	4030006860	S.CERAMIC	C1608 JB 1H 102K-T	Т	
C3	4030006860	S.CERAMIC	C1608 JB 1H 102K-T	T	
C4 C5	4030006860 4030006860	S.CERAMIC S.CERAMIC	C1608 JB 1H 102K-T C1608 JB 1H 102K-T	T	
C12	4030006860	S.CERAMIC	C1608 JB 1H 102K-T	В	
C13 C14	4030006860 4030006860	S.CERAMIC S.CERAMIC	C1608 JB 1H 102K-T C1608 JB 1H 102K-T	B B	
C15	4030006860	S.CERAMIC	C1608 JB 1H 102K-T	В	
C16	4030006860	S.CERAMIC	C1608 JB 1H 102K-T	В	
C17 C18	4030017200 4030017200	S.CERAMIC S.CERAMIC	GRM31BR32J102KY01L GRM31BR32J102KY01L	T T	
C19	4030006860	S.CERAMIC	C1608 JB 1H 102K-T	В	
C20	4030006860	S.CERAMIC	C1608 JB 1H 102K-T	В	
J1	6510022620	S.CONNECTOR	10FMN-BMTTR-A-TBT	В	
J2	6510022580	S.CONNECTOR	24FMN-BMTTR-A-TBT	В	
J3 J4	6510021600 6510022910	S.CONNECTOR CONNECTOR	S2B-PH-SM3-TB IMSA9201B-1-16Z012Z	B T	
J6	6510022790	CONNECTOR	95003-2641	Т	
J7 J8	6450001470 6510023250	CONNECTOR S.CONNECTOR	95003-2881 S3B-PH-SM3-TB	T B	
J9	6510021600	S.CONNECTOR	S2B-PH-SM3-TB	В	
F1	5210000890	FUSE	SBR-1A [USA2]	В	
DS1	5040001820	LED	BG3889S	Т	
DS2	5040001820	LED	BG3889S	Т	
DS3 DS4	5040001330 5040001820	LED LED	BR3889S BG3889S	T	
DS5	5040001820	LED	BG3889S	Ť	
DS6 DS7	5040001820 5030002190	LED LCD	BG3889S MSC-C161UYLY-4W	T T	
S1 S2	2260001680 2260001680	S.SWITCH S.SWITCH	SKQDPB SKQDPB	T T	
S3	2260001680	S.SWITCH	SKQDPB	Т	
S4	2260001680	S.SWITCH	SKQDPB SKODBB	T T	
S5 S6	2260001680 2260001680	S.SWITCH S.SWITCH	SKQDPB SKQDPB	T	
S7 S8	2260001680 2260001680	S.SWITCH S.SWITCH	SKQDPB SKQDPB	T T	
	702020222	e pecietos	ED IOCE IDW V		
W1	7030003860	S.RESISTOR [GEN2]	ERJ3GE JPW V , [GEN4], [GEN74], [EUR2], [FRG2]	Т	
EP1 EP2	0910056251 6910014560	PCB SPACER	B 5997A LM-15	Т	
EP3	6910014550	SPACER	LM-13	Ť	
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[FRONT UNIT]

REF NO.	ORDER NO.		DESCRIPTION	M.
EP4 EP5 EP6 EP7	6910014540 6910014540 6910014540 6910014540	SPACER SPACER SPACER SPACER	LM-10 LM-10 LM-10 LM-10	T T T

[LOGIC UNIT]

REF	ORDER		DECODIDATION	p.#
NO.	NO.		DESCRIPTION	М.
IC1	1110003780	S.IC	NJM2902V-TE1	т
IC2	1110003780	S.IC	NJM2902V-TE1	Т
IC3	1110003780	S.IC	NJM2902V-TE1	В
IC4	1110003780	S.IC	NJM2902V-TE1	T
IC6	1110002400	S.IC	NJM2107F-TE1	T
IC7	1110003780	S.IC	NJM2902V-TE1	В
IC8 IC9	1110003780	S.IC S.IC	NJM2902V-TE1	B B
IC9 IC10	1110003780 1110003780	S.IC	NJM2902V-TE1 NJM2902V-TE1	T
IC10	1180000420	S.IC	TA78L05F (TE12R)	В
IC12	1110003780	S.IC	NJM2902V-TE1	T
IC13	1130008090	S.IC	BU4066BCFV-E1	Ť
IC14	1130004200	S.IC	TC4S66F (TE85R)	Т
IC16	1130006220	S.IC	TC4W53FU (TE12L)	В
IC17	1110003090	IC	LA4425A	Т
IC20	1130006220	S.IC	TC4W53FU (TE12L)	T
IC21	1130006220	S.IC	TC4W53FU (TE12L)	T
IC25	1190001350	S.IC	M62364FP 600D	T B
IC26 IC28	1110003800	S.IC S.IC	NJM2904V-TE1 NJM2107F-TE1	В
IC29	1190001720	S.IC	FX805LG	T
IC30	1130001720	S.IC	TC4W53FU (TE12L)	Ė
IC31	1130007400	S.IC	LC7387M-TRM	Ť
IC32	1130006220	S.IC	TC4W53FU (TE12L)	Т
IC33	1140010140	S.IC	HD64F2238BFA13	Т
IC34	1110005710	S.IC	S-80842CLUA-B63-T2	В
IC35	1130009320	S.IC	BU4011BFV-E2	В
IC36	1130009320	S.IC	BU4011BFV-E2	В
IC37	1140008650	S.IC	HN58X2464TI	T
IC38	1180002250	S.IC	S-812C50AMC-C3E-T2 BU4094BCFV-E2	B
IC39 IC40	1130007570 1130007570	S.IC S.IC	BU4094BCFV-E2 BU4094BCFV-E2	В
IC40	1130007570	S.IC	BU4094BCFV-E2	T
IC42	1170000280	S.IC	TLP121 (GB-TPL)	В
IC43	1170000280	S.IC	TLP121 (GB-TPL)	В
IC44	1120002830	S.IC	NJM2125F-TE1	Т
IC45	1110005000	S.IC	LMC567CM	В
IC46	1190001740	S.IC	BA6566F-E2	В
IC47	1190001730	S.IC	LC73701M-TLM	Т
IC48	1170000280	S.IC	TLP121 (GB-TPL)	T
IC49	1170000280	S.IC	TLP121 (GB-TPL)	T
IC50	1130006220	S.IC	TC4W53FU (TE12L)	T
IC51 IC52	1110002400 1110005690	S.IC S.IC	NJM2107F-TE1 NJM2520V-TE1	T
IC52	1130006220	S.IC	TC4W53FU (TE12L)	Ϊ́
1033	1130000220	3.10	104W3310 (1L12L)	'
Q1	1590001400	S.TRANSISTOR	XP1214 (TX)	В
Q2	1530002060	S.TRANSISTOR	2SC4081 T106 R	В
Q3	1590001940	S.TRANSISTOR	DTC144EE TL	В
Q4	1530002060	S.TRANSISTOR	2SC4081 T106 R	T
Q5	1510000510	S.TRANSISTOR	2SA1576A T106R	T
Q6	1530002060	S.TRANSISTOR	2SC4081 T106 R	T
Q7	1590001400	S.TRANSISTOR	XP1214 (TX) XP1111 (TX)	B B
Q8 Q9	1590003210 1590003210	S.TRANSISTOR S.TRANSISTOR	XP1111 (TX) XP1111 (TX)	В
Q10	1590003210	S.TRANSISTOR	XP1111 (TX)	В
Q11	1590003210	S.TRANSISTOR	XP1111 (TX)	В
Q17	1590001940	S.TRANSISTOR	DTC144EE TL	T
Q18	1590002010	S.TRANSISTOR	XP1114 (TX)	Ť
Q19	1590002010	S.TRANSISTOR	XP1114 (TX)	Т
Q20	1590002010	S.TRANSISTOR	XP1114 (TX)	Т
Q24	1550000020	S.FET	2SJ377 (TE16R)	T
Q25	1530002060	S.TRANSISTOR	2SC4081 T106 R	T
Q26	1590001960	S.TRANSISTOR	XP4311 (TX)	T
Q27	1590001960	S.TRANSISTOR	XP4311 (TX)	T
Q28 Q29	1590001960 1590001960	S.TRANSISTOR S.TRANSISTOR	XP4311 (TX) XP4311 (TX)	T
Q29 Q37	1590001960	S.TRANSISTOR	DTC144EE TL	B
Q37 Q38	1590001940	S.TRANSISTOR	XP1214 (TX)	В
Q40	1590001940	S.TRANSISTOR	DTC144EE TL	В
Q44	1590002430	S.TRANSISTOR	DTA144EE TL	В
Q45	1510000590	S.TRANSISTOR	2SA1362-Y (TE85L)	В
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[FR3000]: IC-FR3000, [FR3100]: IC-FR3100

[LOGIC UNIT]

REF NO.	ORDER NO.		DESCRIPTION	М.	REF NO.	ORDER NO.		DESCRIPTION	М.
Q48	1160000150	S.TRANSISTOR	IMZ4 T108	В	R34	7030003680	S.RESISTOR	ERJ3GEYJ 104 V (100 kΩ)	Т
Q49	1590001960	S.TRANSISTOR		Т	R35	7030003680	S.RESISTOR	ERJ3GEYJ 104 V (100 kΩ)	T
Q50	1590001960	S.TRANSISTOR		Т	R36	7030003680	S.RESISTOR	ERJ3GEYJ 104 V (100 kΩ)	T
Q51	1540000570	S.TRANSISTOR	2SD1760 TLQ [FR3100]	В	R37	7030003680	S.RESISTOR	ERJ3GEYJ 104 V (100 kΩ)	Ţ
Q52	1530001950	S.TRANSISTOR	2SC2712-GR (TE85R) [FR3100]	В	R40	7030003520	S.RESISTOR	ERJ3GEYJ 472 V (4.7 kΩ)	Ţ
					R48 R50	7030003640 7030003640	S.RESISTOR S.RESISTOR	ERJ3GEYJ 473 V (47 kΩ) ERJ3GEYJ 473 V (47 kΩ)	B B
D1	1730002650	S.ZENER	PTZ TE25 36B	В	R51	7310004790	S.TRIMMER	EVM-3YSX50 B14 (103)	
D4	1710001180	S.BRIDGE	D1UBA80-4062	В	R52	7030003670	S.RESISTOR	ERJ3GEYJ 823 V (82 kΩ)	Ϊ́́
D5	1710001180	S.BRIDGE	D1UBA80-4062	В	R53	7030003600	S.RESISTOR	ERJ3GEYJ 223 V (22 kΩ)	†
D6	1790001250	S.DIODE	MA2S111-(TX)	В	R54	7030003520	S.RESISTOR	ERJ3GEYJ 472 V (4.7 kΩ)	т
D7	1790001250	S.DIODE	MA2S111-(TX)	Т	R55	7030003680	S.RESISTOR	ERJ3GEYJ 104 V (100 kΩ)	T
D8	1790001250	S.DIODE	MA2S111-(TX)	В	R56	7030003800	S.RESISTOR	ERJ3GEYJ 105 V (1 M Ω)	T
D9	1790001250	S.DIODE	MA2S111-(TX)	В	R57	7030003800	S.RESISTOR	ERJ3GEYJ 105 V (1 M Ω)	T
D10	1790001250	S.DIODE	MA2S111-(TX)	В	R58	7030003800	S.RESISTOR	ERJ3GEYJ 105 V (1 ΜΩ)	<u>T</u>
D11 D12	1790001250 1790001250	S.DIODE S.DIODE	MA2S111-(TX)	B B	R59 R60	7030003800	S.RESISTOR	ERJ3GEYJ 105 V (1 MΩ) ERJ3GEYJ 105 V (1 MΩ)	T
D12	1790001250	S.DIODE S.DIODE	MA2S111-(TX) SB07-03C-TB	В	R61	7030003800 7030003800	S.RESISTOR S.RESISTOR	ERJ3GEYJ 105 V (1 MΩ)	' +
D14	1790001260	S.DIODE	MA2S077-(TX)	В	R62	7030003800	S.RESISTOR	ERJ3GEYJ 105 V (1 MΩ)	†
D15	1790001250	S.DIODE	MA2S111-(TX)	В	R63	7030003800	S.RESISTOR	ERJ3GEYJ 105 V (1 MΩ)	Ť
D16	1790001250	S.DIODE	MA2S111-(TX)	В	R64	7030003520	S.RESISTOR	ERJ3GEYJ 472 V (4.7 kΩ)	Т
D17	1790001250	S.DIODE	MA2S111-(TX)	В	R65	7030003680	S.RESISTOR	ERJ3GEYJ 104 V (100 kΩ)	В
D18	1790001250	S.DIODE	MA2S111-(TX)	В	R66	7030003550	S.RESISTOR	ERJ3GEYJ 822 V (8.2 kΩ)	В
D19	1790001250	S.DIODE	MA2S111-(TX)	T	R67	7030003530	S.RESISTOR	ERJ3GEYJ 562 V (5.6 kΩ)	В
D20	1790001250	S.DIODE	MA2S111-(TX)	T	R68	7030003400	S.RESISTOR	ERJ3GEYJ 471 V (470 Ω)	В
D21	1790001250	S.DIODE	MA2S111-(TX)	T	R69	7030003600	S.RESISTOR	ERJ3GEYJ 223 V (22 kΩ)	В
D22 D23	1790001250 1790001250	S.DIODE S.DIODE	MA2S111-(TX) MA2S111-(TX)	T B	R70 R71	7030003490 7030003410	S.RESISTOR S.RESISTOR	ERJ3GEYJ 272 V (2.7 kΩ) ERJ3GEYJ 561 V (560 Ω)	B B
D23	1790001250	S.DIODE	MA2S111-(TX)	В	R72	7030003410	S.RESISTOR	ERJ3GEYJ 333 V (33 kΩ)	B
D25	1790001250	S.DIODE	MA2S111-(TX)	В	R74	7030003600	S.RESISTOR	ERJ3GEYJ 223 V (22 kΩ)	В
D26	1790001250	S.DIODE	MA2S111-(TX)	В	R75	7030003720	S.RESISTOR	ERJ3GEYJ 224 V (220 kΩ)	В
D27	1790001250	S.DIODE	MA2S111-(TX)	В	R77	7030003520	S.RESISTOR	ERJ3GEYJ 472 V (4.7 kΩ)	В
D28	1750000550	S.DIODE	1SS355 TÈ-17	В	R78	7030003660	S.RESISTOR	ERJ3GEYJ 683 V (68 kΩ)	В
D29	1750000550	S.DIODE	1SS355 TE-17	В	R79	7030003660	S.RESISTOR	ERJ3GEYJ 683 V (68 kΩ)	T
D33	1790001250	S.DIODE	MA2S111-(TX)	В	R80	7030003660	S.RESISTOR	ERJ3GEYJ 683 V (68 kΩ)	<u>T</u>
D38	1730002640	S.ZENER	PTZ TE25 13B	T	R81	7030003520	S.RESISTOR	ERJ3GEYJ 472 V (4.7 kΩ)	Ţ
D43 D44	1790001250	S.DIODE	MA2S111-(TX)	B B	R82 R83	7030003660	S.RESISTOR	ERJ3GEYJ 683 V (68 kΩ)	T
D44 D45	1790001250 1790001250	S.DIODE S.DIODE	MA2S111-(TX) MA2S111-(TX)	В	R84	7030003660 7030003560	S.RESISTOR S.RESISTOR	ERJ3GEYJ 683 V (68 kΩ) ERJ3GEYJ 103 V (10 kΩ)	'
D45	1790001250	S.DIODE	MA2S111-(TX)	В	R85	7030003560	S.RESISTOR	ERJ3GEYJ 103 V (10 kΩ)	Ϊ́́
D40	1730001230	O.DIODE	WIAZOTTI (TA)	١	R86	7030003520	S.RESISTOR	ERJ3GEYJ 472 V (4.7 kΩ)	†
					R87	7030003520	S.RESISTOR	ERJ3GEYJ 472 V (4.7 kΩ)	Ť
X1	6050011490	S.XTAL	CR-733 (4.194304 MHz)	Т	R88	7030003680	S.RESISTOR	ERJ3GEYJ 104 V (100 kΩ)	В
X2	6050011000	S.XTAL	CR-681 (12.288 MHz)	Т	R89	7030003520	S.RESISTOR	ERJ3GEYJ 472 V (4.7 kΩ)	В
X3	6050009300	S.XTAL	CR-505 (4 MHz)	Т	R90	7030003680	S.RESISTOR	ERJ3GEYJ 104 V (100 kΩ)	T
					R91	7030003680	S.RESISTOR	ERJ3GEYJ 104 V (100 kΩ)	T
				_1	R92	7030003520	S.RESISTOR	ERJ3GEYJ 472 V (4.7 kΩ)	Ţ
L1	6200009790 6200009790	S.COIL	BLM31PG121SN1	T T	R94 R95	7030003800	S.RESISTOR	ERJ3GEYJ 105 V (1 MΩ)	T
L2 L3	6200009790	S.COIL S.COIL	BLM31PG121SN1 BLM31PG121SN1	+	R95	7030003800 7030003690	S.RESISTOR S.RESISTOR	ERJ3GEYJ 105 V (1 MΩ) ERJ3GEYJ 124 V (120 kΩ)	B
L4	6200009790	S.COIL	BLM31PG121SN1	Ť	R97	7030003090	S.RESISTOR	ERJ3GEYJ 474 V (470 kΩ)	B
L5	6200009790	S.COIL	BLM31PG121SN1	В	R98	7030003760	S.RESISTOR	ERJ3GEYJ 474 V (470 kΩ)	В
L6	6200009790	S.COIL	BLM31PG121SN1	т	R99	7030003760	S.RESISTOR	ERJ3GEYJ 474 V (470 kΩ)	В
L7	6200009790	S.COIL	BLM31PG121SN1	Ť	R100	7030003760	S.RESISTOR	ERJ3GEYJ 474 V (470 kΩ)	В
L8	6200009790	S.COIL	BLM31PG121SN1	Т	R101	7030003760	S.RESISTOR	ERJ3GEYJ 474 V (470 kΩ)	В
L9	6200009790	S.COIL	BLM31PG121SN1	Т	R102	7030003760	S.RESISTOR	ERJ3GEYJ 474 V (470 kΩ)	В
L10	6200009790	S.COIL	BLM31PG121SN1	В	R103	7030003680	S.RESISTOR	ERJ3GEYJ 104 V (100 kΩ)	B
L11	6200009790	S.COIL	BLM31PG121SN1	В	R104	7030003750	S.RESISTOR	ERJ3GEYJ 394 V (390 kΩ)	B
					R105 R106	7030003520 7030003680	S.RESISTOR S.RESISTOR	ERJ3GEYJ 472 V (4.7 kΩ) ERJ3GEYJ 104 V (100 kΩ)	B
R2	7030003680	S.RESISTOR	ERJ3GEYJ 104 V (100 kΩ)	Т	R107	7030003080	S.RESISTOR	ERJ3GEYJ 105 V (1 MΩ)	+
R3	7030003660	S.RESISTOR	ERJ3GEYJ 394 V (390 kΩ)	Ť	R107	7030003600	S.RESISTOR	ERJ3GEYJ 184 V (180 kΩ)	'
R5	7030003730	S.RESISTOR	ERJ3GEYJ 153 V (15 kΩ)	Ť	R109	7030003710	S.RESISTOR	ERJ3GEYJ 224 V (220 kΩ)	Ϊ́́
R6	7030003710	S.RESISTOR	ERJ3GEYJ 184 V (180 kΩ)	Ť	R112	7030003440	S.RESISTOR	ERJ3GEYJ 102 V (1 kΩ)	Ť
R7	7310004790	S.TRIMMER	EVM-3YSX50 B14 (103)	В	R113	7030003680	S.RESISTOR	ERJ3GEYJ 104 V (100 kΩ)	T
R8	7030003640	S.RESISTOR	ERJ3GEYJ 473 V (47 kΩ)	Т	R114	7030003630	S.RESISTOR	ERJ3GEYJ 393 V (39 kΩ)	В
R9	7030003640	S.RESISTOR	ERJ3GEYJ 473 V (47 kΩ)	Т	R115	7030003670	S.RESISTOR	ERJ3GEYJ 823 V (82 kΩ)	В
R10	7030003520	S.RESISTOR	ERJ3GEYJ 472 V (4.7 kΩ)	T	R116	7030003640	S.RESISTOR	ERJ3GEYJ 473 V (47 kΩ)	В
R12	7030003640	S.RESISTOR	ERJ3GEYJ 473 V (47 kΩ)	T	R117	7030003700	S.RESISTOR	ERJ3GEYJ 154 V (150 kΩ)	В
R13	7030003640	S.RESISTOR	ERJ3GEYJ 473 V (47 kΩ)	T T	R118	7030003680	S.RESISTOR	ERJ3GEYJ 104 V (100 kΩ)	B B
R14 R15	7030003520 7030003680	S.RESISTOR S.RESISTOR	ERJ3GEYJ 472 V (4.7 kΩ) ERJ3GEYJ 104 V (100 kΩ)	+	R119 R121	7030003680 7030003700	S.RESISTOR S.RESISTOR	ERJ3GEYJ 104 V (100 kΩ) ERJ3GEYJ 154 V (150 kΩ)	B
R16	7030003680	S.RESISTOR	ERJ3GEYJ 104 V (100 kΩ)	† I	R122	7030003700	S.RESISTOR	ERJ3GEYJ 393 V (39 kΩ)	B
R17	7030003520	S.RESISTOR	ERJ3GEYJ 472 V (4.7 kΩ)	Ť	R123	7030003630	S.RESISTOR	ERJ3GEYJ 473 V (47 kΩ)	1
R18	7030003680	S.RESISTOR	ERJ3GEYJ 104 V (100 kΩ)	Ť	R124	7030003640	S.RESISTOR	ERJ3GEYJ 473 V (47 kΩ)	†
R19	7030003680	S.RESISTOR	ERJ3GEYJ 104 V (100 kΩ)	Т	R127	7030003530	S.RESISTOR	ERJ3GEYJ 562 V (5.6 kΩ)	Ť
R22	7030003560	S.RESISTOR	ERJ3GEYJ 103 V (10 kΩ)	В	R128	7030003680	S.RESISTOR	ERJ3GEYJ 104 V (100 kΩ)	В
R23	7030003740	S.RESISTOR	ERJ3GEYJ 334 V (330 kΩ)	В	R129	7030006480	S.RESISTOR	MCR100JZHJ 10 Ω (100)	В
R24	7030003520	S.RESISTOR	ERJ3GEYJ 472 V (4.7 kΩ)	В	R130	7030003620	S.RESISTOR	ERJ3GEYJ 333 V (33 kΩ)	T
R25	7030003520	S.RESISTOR	ERJ3GEYJ 472 V (4.7 kΩ)	В	R131	7030001430	S.RESISTOR	MCR50JZHJ 27 kΩ	B
R26	7030003580	S.RESISTOR	ERJ3GEYJ 153 V (15 kΩ)	T	R137	7030003560	S.RESISTOR	ERJ3GEYJ 103 V (10 kΩ)	T
R27	7030003530	S.RESISTOR	ERJ3GEY J 562 V (5.6 kΩ)	T	R138	7030003560	S.RESISTOR	ERJ3GEYJ 103 V (10 kΩ)	T
R28	7030003420	S.RESISTOR	ERJ3GEYJ 681 V (680 Ω)	T T	R139	7030003620	S.RESISTOR	ERJ3GEY J 103 V (10 kΩ)	
R29 R30	7030003510 7030003480	S.RESISTOR S.RESISTOR	ERJ3GEYJ 392 V (3.9 kΩ) ERJ3GEYJ 222 V (2.2 kΩ)	T	R140 R141	7030003560 7030003560	S.RESISTOR S.RESISTOR	ERJ3GEYJ 103 V (10 kΩ) ERJ3GEYJ 103 V (10 kΩ)	
R31	7030003480	S.RESISTOR	ERJ3GEYJ 271 V (270 Ω)	Ť	R143	7030003360	S.RESISTOR	MCR10EZHJ 1.8 kΩ	ЬB
R32	7030003370	S.RESISTOR	ERJ3GEYJ 223 V (22 kΩ)	Ť	R144	7030000410	S.RESISTOR	MCR10EZHJ 6.8 kΩ	T
R33	7030003680	S.RESISTOR	ERJ3GEYJ 104 V (100 kΩ)	Т	R145	7030000410	S.RESISTOR	MCR10EZHJ 1.8 kΩ	1

[FR3000]: IC-FR3000, [FR3100]: IC-FR3100

ILOGIC UNIT1

REF ORDER **DESCRIPTION** M. NO. NO. R148 7030003760 S.RESISTOR ERJ3GEYJ 474 V (470 kΩ) R149 7030003450 S.RESISTOR ERJ3GEYJ 122 V (1.2 kΩ) R150 7030003450 S RESISTOR ERJ3GEYJ 122 V (1.2 kΩ) ERJ3GEYJ 470 V (47 Ω) R151 7030003280 S.RESISTOR В T 7030003560 S.RESISTOR ERJ3GEYJ 103 V (10 kΩ) R153 ERJ12YJ390U R154 7030008350 S.RESISTOR В R155 7030003560 S RESISTOR ERJ3GEYJ 103 V (10 kΩ) В R158 7030003460 S RESISTOR ERJ3GEYJ 152 V (1.5 kΩ) B 7030003460 S.RESISTOR ERJ3GEYJ 152 V (1.5 kΩ) В R159 R160 7030003460 S.RESISTOR ERJ3GEYJ 152 V (1.5 kΩ) В ERJ3GEYJ 223 V (22 kΩ) 7030003600 S.RESISTOR [FR3000] В S.RESISTOR ERJ3GEYJ 273 V (27 kΩ) 7030003610 [FR3100] В 7030003800 S.RESISTOR ERJ3GEYJ 105 V (1 MΩ) R163 В R164 7030003620 S.RESISTOR ERJ3GEYJ 333 V (33 kΩ) В R165 7030003690 S RESISTOR ERJ3GEYJ 124 V (120 kΩ) Т 7030003740 ERJ3GEYJ 334 V (330 kΩ) В R166 S.RESISTOR В R168 7030003400 S.RESISTOR ERJ3GEYJ 471 V (470 Ω) R169 7030003750 S.RESISTOR ERJ3GEYJ 394 V (390 kΩ) В R170 7030003680 S.RESISTOR ERJ3GEYJ 104 V (100 kΩ) В FB.I3GFY.I 104 V (100 kO) B T R171 7030003680 S RESISTOR R172 7030003680 S.RESISTOR ERJ3GEYJ 104 V (100 kΩ) S.RESISTOR ERJ3GEYJ 104 V (100 kΩ) В R175 7030003680 R177 7030003640 S RESISTOR ERJ3GEYJ 473 V (47 kΩ) Т R179 7030003700 S RESISTOR ERJ3GEYJ 154 V (150 kΩ) В В ERJ3GEYJ 104 V (100 kΩ) R182 7030003680 S.RESISTOR ERJ3GEYJ 104 V (100 kΩ) В R183 7030003680 S.RESISTOR 7030003440 S.RESISTOR ERJ3GEYJ 102 V (1 kΩ) В R184 R185 7030003570 S RESISTOR ERJ3GEYJ 123 V (12 kΩ) В R186 7030003570 S.RESISTOR ERJ3GEYJ 123 V (12 kΩ) B T 7030003490 S.RESISTOR ERJ3GEYJ 272 V (2.7 kΩ) R187 R188 7030003490 S.RESISTOR ERJ3GEYJ 272 V (2.7 kΩ) R189 7410001130 S.ARRAY EXB28V102JX Т ERJ3GEYJ 103 V (10 kΩ) R190 7030003560 S RESISTOR B 7030003560 S.RESISTOR ERJ3GEYJ 103 V (10 kΩ) R191 В S.RESISTOR В R192 7030003750 ERJ3GEYJ 394 V (390 kΩ) R193 7030003760 S.RESISTOR ERJ3GEYJ 474 V (470 kΩ) В R194 7030003750 S RESISTOR ERJ3GEYJ 394 V (390 k Ω) B B ERJ3GEYJ 473 V (47 kΩ) S RESISTOR R195 7030003640 Т 7410001150 S.ARRAY EXB28V471JX R196 R197 7410001150 S.ARRAY EXB28V471JX R198 7410001130 SARRAY FXR28V102.IX В R199 7410001130 S.ARRAY EXB28V102JX T R200 7410001150 S.ARRAY EXB28V471JX R201 7410001130 S.ARRAY EXB28V102JX 7410001150 S.ARRAY EXB28V471JX Т R202 S.ARRAY R203 7410001130 EXB28V102JX Т S.RESISTOR ERJ3GEYJ 104 V (100 kΩ) R204 7030003680 Т Ť 7030003680 S.RESISTOR ERJ3GEYJ 104 V (100 kΩ) R205 7030003640 ERJ3GEYJ 473 V (47 kΩ) R206 S.RESISTOR R207 7030003420 S.RESISTOR ERJ3GEYJ 681 V (680 Ω) Т R208 7030003640 S.RESISTOR ERJ3GEYJ 473 V (47 kΩ) T ERJ3GEYJ 473 V (47 kΩ) 7030003640 R209 S.RESISTOR ERJ3GEYJ 333 V (33 kΩ) T R210 7030003620 S.RESISTOR R211 7030003440 S.RESISTOR ERJ3GEYJ 102 V (1 kΩ) R212 7030003620 S RESISTOR ERJ3GEYJ 333 V (33 kΩ) Т ERJ3GEYJ 473 V (47 kΩ) Т R213 7030003640 S.RESISTOR R214 7030003440 S.RESISTOR ERJ3GEYJ 102 V (1 kΩ) В 7030003440 S.RESISTOR ERJ3GEYJ 102 V (1 kΩ) В R215 R216 7410001130 S.ARRAY EXB28V102JX Т R217 7410001130 SARRAY FXR28V102.IX В EXB28V102JX R218 7410001130 S.ARRAY T EXB28V102JX R219 7410001130 S.ARRAY R220 7410001130 S.ARRAY EXB28V102JX В R221 7410001150 S.ARRAY EXB28V471JX Т R222 7410001130 SARRAY FXR28V102.IX T S.ARRAY EXB28V102JX R223 7410001130 R224 7410001130 S.ARRAY EXB28V102JX R225 7030003680 S.RESISTOR ERJ3GEYJ 104 V (100 kΩ) В R227 7030003640 S RESISTOR ERJ3GEYJ 473 V (47 kΩ) В ERJ3GEYJ 473 V (47 kΩ) R228 7030003640 S.RESISTOR R229 7030003640 S.RESISTOR ERJ3GEYJ 473 V (47 kΩ) Т R230 7030003640 S.RESISTOR ERJ3GEYJ 473 V (47 kΩ) R231 7030003640 S RESISTOR ERJ3GEYJ 473 V (47 kΩ) Т ERJ3GEYJ 473 V (47 kΩ) Т R232 7030003640 S.RESISTOR 7030003640 ERJ3GEYJ 473 V (47 kΩ) R233 S.RESISTOR Т R234 7030003640 S.RESISTOR ERJ3GEYJ 473 V (47 kΩ) R235 7030003440 S.RESISTOR ERJ3GEYJ 102 V (1 kΩ) Т R236 7030003440 S RESISTOR ERJ3GEYJ 102 V (1 kΩ) T T R237 7030003440 S.RESISTOR ERJ3GEYJ 102 V (1 kΩ) R238 7030003440 S.RESISTOR ERJ3GEYJ 102 V (1 kΩ) R239 7410001130 S.ARRAY EXB28V102JX В S.RESISTOR R240 7030003440 ERJ3GEYJ 102 V (1 kΩ) В

[LOGIC UNIT]

[LOG	IC UNIT]			
REF NO.	ORDER NO.		DESCRIPTION	М.
R246	7410001140	S.ARRAY	EXB28V104JX	В
R247 R250	7030003680	S.RESISTOR S.ARRAY	ERJ3GEYJ 104 V (100 kΩ) EXB28V104JX	B
R251	7030003680	S.RESISTOR	ERJ3GEYJ 104 V (100 kΩ)	В
R256	7030003240	S.RESISTOR	ERJ3GEYJ 220 V (22 Ω)	T
R257 R258	7030003620	S.RESISTOR S.RESISTOR	ERJ3GEYJ 333 V (33 kΩ) ERJ3GEYJ 563 V (56 kΩ)	T
R259	7030003650 7030003680	S.RESISTOR	ERJ3GEYJ 104 V (100 kΩ)	't
R260	7030003680	S.RESISTOR	ERJ3GEYJ 104 V (100 kΩ)	Ť
R261	7030003640	S.RESISTOR	ERJ3GEYJ 473 V (47 kΩ)	В
R262 R263	7030001210 7030003410	S.RESISTOR S.RESISTOR	MCR50JZHJ 470 Ω (471) ERJ3GEYJ 561 V (560 Ω)	B
R264	7030003410	S.RESISTOR	ERJ3GEYJ 561 V (560 Ω)	В
R265	7030003450	S.RESISTOR	ERJ3GEYJ 122 V (1.2 kΩ)	В
R266 R268	7030003440	S.RESISTOR S.RESISTOR	ERJ3GEYJ 102 V (1 kΩ) ERJ3GEYJ 473 V (47 kΩ)	T
R269	7030003680	S.RESISTOR	ERJ3GEYJ 104 V (100 kΩ)	В
R275	7030003680	S.RESISTOR	ERJ3GEYJ 104 V (100 kΩ)	T
R276 R277	7030003560 7030003680	S.RESISTOR S.RESISTOR	ERJ3GEYJ 103 V (10 kΩ) ERJ3GEYJ 104 V (100 kΩ)	B
R278	7030003680	S.RESISTOR	ERJ3GEYJ 104 V (100 kΩ)	T
R279	7030003680	S.RESISTOR	ERJ3GEYJ 104 V (100 kΩ)	Ţ
R280 R281	7030003680 7030003680	S.RESISTOR S.RESISTOR	ERJ3GEYJ 104 V (100 kΩ) ERJ3GEYJ 104 V (100 kΩ)	T B
R282	7030003000	S.RESISTOR	ERJ3GEYJ 334 V (330 kΩ)	В
R283	7030003560	S.RESISTOR	ERJ3GEYJ 103 V (10 kΩ)	В
R284 R285	7030003700 7030003700	S.RESISTOR S.RESISTOR	ERJ3GEYJ 154 V (150 kΩ) ERJ3GEYJ 154 V (150 kΩ)	B
R289	7030003700	S.RESISTOR	ERJ3GEYJ 683 V (68 kΩ)	†
R290	7030003640	S.RESISTOR	ERJ3GEYJ 473 V (47 kΩ)	T
R291	7030003660	S.RESISTOR	ERJ3GEYJ 683 V (68 kΩ)	Ţ
R292 R293	7030003520 7030003670	S.RESISTOR S.RESISTOR	ERJ3GEYJ 472 V (4.7 kΩ) ERJ3GEYJ 823 V (82 kΩ)	T
R294	7030003670	S.RESISTOR	ERJ3GEYJ 823 V (82 kΩ)	T
R295	7030003650	S.RESISTOR	ERJ3GEYJ 563 V (56 kΩ)	T
R297 R300	7030003620 7030003520	S.RESISTOR S.RESISTOR	ERJ3GEYJ 333 V (33 kΩ) ERJ3GEYJ 472 V (4.7 kΩ)	T
R304	7030003800	S.RESISTOR	ERJ3GEYJ 105 V (1 MΩ)	В
R305	7030003620	S.RESISTOR	ERJ3GEYJ 333 V (33 kΩ)	T
R306 R307	7030003600 7030003410	S.RESISTOR S.RESISTOR	ERJ3GEYJ 223 V (22 kΩ) ERJ3GEYJ 561 V (560 Ω)	B
R312	7030003540	S.RESISTOR	ERJ3GEYJ 682 V (6.8 kΩ)	T
R313	7030003680	S.RESISTOR	ERJ3GEYJ 104 V (100 kΩ)	T
R314 R315	7030003520 7030003680	S.RESISTOR S.RESISTOR	ERJ3GEYJ 472 V (4.7 kΩ) ERJ3GEYJ 104 V (100 kΩ)	T B
R316	7030003540	S.RESISTOR	ERJ3GEYJ 682 V (6.8 kΩ)	T
R317	7030003680	S.RESISTOR	ERJ3GEYJ 104 V (100 kΩ)	В
R318 R320	7030003400 7030003640	S.RESISTOR S.RESISTOR	ERJ3GEYJ 471 V (470 Ω) ERJ3GEYJ 473 V (47 kΩ)	T B
R321	7030003680	S.RESISTOR	ERJ3GEYJ 104 V (100 kΩ)	В
R322	7030003540	S.RESISTOR	ERJ3GEYJ 682 V (6.8 kΩ)	В
R323 R325	7030003680	S.RESISTOR S.RESISTOR	ERJ3GEYJ 104 V (100 kΩ) ERJ3GEYJ 104 V (100 kΩ)	T B
R326	7030003540	S.RESISTOR	ERJ3GEYJ 682 V (6.8 kΩ)	T
R327	7030003680	S.RESISTOR	ERJ3GEYJ 104 V (100 kΩ)	T
R328 R329	7030003520 7030003680	S.RESISTOR S.RESISTOR	ERJ3GEYJ 472 V (4.7 kΩ) ERJ3GEYJ 104 V (100 kΩ)	T
R330	7030003520	S.RESISTOR	ERJ3GEYJ 472 V (4.7 kΩ)	Ť
R331	7030003520	S.RESISTOR	ERJ3GEYJ 472 V (4.7 kΩ)	В
R332 R334	7030003540 7030003520	S.RESISTOR S.RESISTOR	ERJ3GEYJ 682 V (6.8 kΩ) ERJ3GEYJ 472 V (4.7 kΩ)	B
R335	7030003520	S.RESISTOR	ERJ3GEYJ 472 V (4.7 kΩ)	T
R336	7030003680	S.RESISTOR	ERJ3GEYJ 104 V (100 kΩ)	Ţ
R337 R338	7030003540 7030003200	S.RESISTOR S.RESISTOR	ERJ3GEYJ 682 V (6.8 kΩ) ERJ3GEYJ 100 V (10 Ω)	T B
R339	7030003200	S.RESISTOR	ERJ3GEYJ 100 V (10 Ω)	T
R340	7030003200	S.RESISTOR	ERJ3GEYJ 100 V (10 Ω)	T
R341 R342	7030003510 7030003510	S.RESISTOR S.RESISTOR	ERJ3GEYJ 392 V (3.9 kΩ) ERJ3GEYJ 392 V (3.9 kΩ)	T
R345	7030003510	S.RESISTOR	ERJ3GEYJ 332 V (3.3 kΩ)	Ť
R346	7030003450	S.RESISTOR	ERJ3GEYJ 122 V (1.2 kΩ)	T
R347 R348	7030003540	S.RESISTOR S.RESISTOR	ERJ3GEYJ 682 V (6.8 kΩ) ERJ3GEYJ 472 V (4.7 kΩ)	T
R349	7030003320	S.RESISTOR	ERJ3GEYJ 101 V (100 Ω)	T
R350	7030003320	S.RESISTOR	ERJ3GEYJ 101 V (100 Ω)	Ţ
R351 R352	7030003320 7030003320	S.RESISTOR S.RESISTOR	ERJ3GEYJ 101 V (100 Ω) ERJ3GEYJ 101 V (100 Ω)	T B
R353	7030003520	S.RESISTOR	ERJ3GEYJ 472 V (4.7 kΩ)	T
R355	7030003520	S.RESISTOR	ERJ3GEYJ 472 V (4.7 kΩ)	T
R356 R358	7030003540 7030003480	S.RESISTOR S.RESISTOR	ERJ3GEYJ 682 V (6.8 kΩ) ERJ3GEYJ 222 V (2.2 kΩ)	B
R359	7030003480	S.RESISTOR	ERJ3GEYJ 561 V (560 Ω)	В
R367	7030003520	S.RESISTOR	ERJ3GEYJ 472 V (4.7 kΩ)	В
R368 R369	7030003640 7030003680	S.RESISTOR S.RESISTOR	ERJ3GEYJ 473 V (47 kΩ) ERJ3GEYJ 104 V (100 kΩ)	B
R370	7030003080	S.RESISTOR	ERJ3GEYJ 222 V (2.2 kΩ)	В
R371	7030003640	S.RESISTOR	ERJ3GEYJ 473 V (47 kΩ)	В
R372	7030003200	S.RESISTOR	ERJ3GEYJ 100 V (10 Ω)	В

[FR3000]: IC-FR3000, [FR3100]: IC-FR3100

S RESISTOR

S.RESISTOR

S.RESISTOR

S.RESISTOR

7030003200

7030003680

7030003680

7030003570

R241

R242

R243

R245

M.=Mounted side (T: Mounted on the Top side, B: Mounted on the Bottom side)
S.=Surface mount

В

В

В

В

ERJ3GEYJ 100 V (10 Ω)

ERJ3GEYJ 104 V (100 kΩ)

ERJ3GEYJ 104 V (100 kΩ)

ERJ3GEYJ 123 V (12 kΩ)

[LOGIC UNIT]

					<u>-</u>	IC UNIT		
REF NO.	ORDER NO.		DESCRIPTION	М.	REF NO.	ORDER NO.		DESCRIPTION
R373	7030003520	S.RESISTOR	ERJ3GEYJ 472 V (4.7 kΩ)	В	R523	7030006480	S.RESISTOR	MCR100JZHJ 10 Ω (100)
R375	7030003680	S.RESISTOR	ERJ3GEYJ 104 V (100 kΩ)	В	R524	7030003410	S.RESISTOR	ERJ3GEYJ 561 V (560 Ω)
R376	7030003540	S.RESISTOR	ERJ3GEYJ 682 V (6.8 kΩ)	В	R525	7030003440	S.RESISTOR	ERJ3GEYJ 102 V (1 kΩ)
R382	7030003520	S.RESISTOR	ERJ3GEYJ 472 V (4.7 kΩ)	В	R526	7030003680	S.RESISTOR	ERJ3GEYJ 104 V (100 kΩ)
R385 R386	7030003560 7030003520	S.RESISTOR S.RESISTOR	ERJ3GEYJ 103 V (10 kΩ) ERJ3GEYJ 472 V (4.7 kΩ)	T T	R527 R528	7030007180 7030010340	S.RESISTOR S.RESISTOR	ERJ12YJ150U (15 Ω) [FR3100 ERJ12YJ103U (10 k Ω) [FR3100
R387	7030003320	S.RESISTOR	ERJ3GEYJ 100 V (10 Ω)	В	R529	7030010340	S.RESISTOR	ERJ12YJ472U (4.7 k Ω)
R389	7030003520	S.RESISTOR	ERJ3GEYJ 472 V (4.7 kΩ)	В	R530	7030006070	S.RESISTOR	ERJ12YJ101U (100 Ω) [FR3100
R390	7030003640	S.RESISTOR	ERJ3GEYJ 473 V (47 kΩ)	В	R531	7030003200	S.RESISTOR	ERJ3GEYJ 100 V (10 Ω)
R391	7030003640	S.RESISTOR	ERJ3GEYJ 473 V (47 kΩ)	T		7000000000	0.05010700	[FR3000
R392 R396	7030003680 7030003520	S.RESISTOR S.RESISTOR	ERJ3GEYJ 104 V (100 kΩ) ERJ3GEYJ 472 V (4.7 kΩ)	T B		7030003560	S.RESISTOR	ERJ3GEYJ 103 V (10 kΩ) [FR3100
R397	7030003520	S.RESISTOR	ERJ3GEYJ 473 V (47 kΩ)	В				1113100
R398	7030003640	S.RESISTOR	ERJ3GEYJ 473 V (47 kΩ)	T				
R399	7030003680	S.RESISTOR	ERJ3GEYJ 104 V (100 kΩ)	В	C1	4030017490	S.CERAMIC	C1608 JB 1A 105K-T
3403	7030003520	S.RESISTOR	ERJ3GEYJ 472 V (4.7 kΩ)	В	C2	4030006870	S.CERAMIC	C1608 JB 1H 222K-T
3404	7030003640	S.RESISTOR	ERJ3GEYJ 473 V (47 kΩ)	В	C3	4510004630	S.ELECTROLYTIC	
R405 R407	7030003680 7030003680	S.RESISTOR S.RESISTOR	ERJ3GEYJ 104 V (100 kΩ) ERJ3GEYJ 104 V (100 kΩ)	T B	C4 C5	4550006480 4030017490	S.TANTALUM S.CERAMIC	TEESVA 1C 475M8L C1608 JB 1A 105K-T
R408	7030003000	S.RESISTOR	ERJ3GEYJ 103 V (10 kΩ)	В	C6	4030017490	S.CERAMIC	C1608 JB 1A 105K-T
3409	7030003560	S.RESISTOR	ERJ3GEYJ 103 V (10 kΩ)	В	C7	4030011600	S.CERAMIC	C1608 JB 1E 104K-T
R411	7030003480	S.RESISTOR	ERJ3GEYJ 222 V (2.2 kΩ)	В	C8	4030011600	S.CERAMIC	C1608 JB 1E 104K-T
3412	7030003640	S.RESISTOR	ERJ3GEYJ 473 V (47 kΩ)	В	C9	4030011600	S.CERAMIC	C1608 JB 1E 104K-T
3414	7030003480	S.RESISTOR	ERJ3GEYJ 222 V (2.2 kΩ)	Т	C10	4030011600	S.CERAMIC	C1608 JB 1E 104K-T
R415	7030003410	S.RESISTOR	ERJ3GEYJ 561 V (560 Ω)	T	C11	4030011600	S.CERAMIC	C1608 JB 1E 104K-T
R417 R435	7030003200	S.RESISTOR	ERJ3GEY J 100 V (10 Ω)	B T	C12 C13	4030017800 4030007120	S.CERAMIC S.CERAMIC	C1608 CH 1H 561J-T
1435 1436	7030003540 7030003200	S.RESISTOR S.RESISTOR	ERJ3GEYJ 682 V (6.8 kΩ) ERJ3GEYJ 100 V (10 Ω)	T	C13	4030007120	S.CERAMIC S.CERAMIC	C1608 CH 1H 820J-T C1608 CH 1H 221J-T
1436 1438	7030003200	S.RESISTOR	ERJ3GEYJ 100 V (10 Ω)	В	C14	4030007170	S.CERAMIC S.CERAMIC	C1608 CH 1H 2213-1 C1608 CH 1H 681J-T
3441	7030003200	S.RESISTOR	ERJ3GEYJ 333 V (33 kΩ)	В	C16	4030007110	S.CERAMIC	C1608 CH 1H 680J-T
3442	7030003620	S.RESISTOR	ERJ3GEYJ 333 V (33 kΩ)	В	C17	4030017870	S.CERAMIC	C1608 CH 1H 681J-T
R443	7030003680	S.RESISTOR	ERJ3GEYJ 104 V (100 kΩ)	В	C18	4030007140	S.CERAMIC	C1608 CH 1H 121J-T
450	7030000330	S.RESISTOR	MCR10EZHJ 390 Ω (391)	В	C20	4030010760	S.CERAMIC	C1608 CH 1H 331J-T
R451	7030003680	S.RESISTOR	ERJ3GEYJ 104 V (100 kΩ)	T	C23	4030017490	S.CERAMIC	C1608 JB 1A 105K-T
452	7030004040	S.RESISTOR	ERJ3GEYJ 4R7 V (4.7 Ω)	В	C24	4030017490	S.CERAMIC	C1608 JB 1A 105K-T
453 457	7030003200 7030003410	S.RESISTOR S.RESISTOR	ERJ3GEYJ 100 V (10 Ω) ERJ3GEYJ 561 V (560 Ω)	B B	C25 C26	4030017490 4030017490	S.CERAMIC S.CERAMIC	C1608 JB 1A 105K-T C1608 JB 1A 105K-T
460	7030003410	S.RESISTOR	MCR10EZHJ 390 Ω (391)	В	C27	4030017490	S.CERAMIC	C1608 JB 1E 104K-T
461	7030003680	S.RESISTOR	ERJ3GEYJ 104 V (100 kΩ)	В	C28	4550006250	S.TANTALUM	TEESVA 1A 106M8L
462	7030003680	S.RESISTOR	ERJ3GEYJ 104 V (100 kΩ)	В	C30	4030011600	S.CERAMIC	C1608 JB 1E 104K-T
1463	7030003280	S.RESISTOR	ERJ3GEYJ 470 V (47 Ω)	Т	C31	4030017490	S.CERAMIC	C1608 JB 1A 105K-T
R464	7030003320	S.RESISTOR	ERJ3GEYJ 101 V (100 Ω)	Т	C32	4030011600	S.CERAMIC	C1608 JB 1E 104K-T
1466	7030003440	S.RESISTOR	ERJ3GEYJ 102 V (1 kΩ)	В	C33	4030017490	S.CERAMIC	C1608 JB 1A 105K-T
1469	7030003320	S.RESISTOR	ERJ3GEYJ 101 V (100 Ω)	T	C34	4030017490	S.CERAMIC	C1608 JB 1A 105K-T
R470 R471	7030003320 7030003680	S.RESISTOR S.RESISTOR	ERJ3GEYJ 101 V (100 Ω) ERJ3GEYJ 104 V (100 kΩ)	T B	C36 C37	4030011600 4030011600	S.CERAMIC S.CERAMIC	C1608 JB 1E 104K-T C1608 JB 1E 104K-T
1471	7030003680	S.RESISTOR	ERJ3GEYJ 104 V (100 kΩ)	Т	C38	4030011600	S.CERAMIC	C1608 JB 1E 104K-T
3473	7030003680	S.RESISTOR	ERJ3GEYJ 104 V (100 kΩ)	Ť	C39	4030011600	S.CERAMIC	C1608 JB 1E 104K-T
R474	7030003620	S.RESISTOR	ERJ3GEYJ 333 V (33 kΩ)	Т	C40	4030011600	S.CERAMIC	C1608 JB 1E 104K-T
R475	7030003740	S.RESISTOR	ERJ3GEYJ 334 V (330 kΩ)	Т	C42	4030011600	S.CERAMIC	C1608 JB 1E 104K-T
476	7030003540	S.RESISTOR	ERJ3GEYJ 682 V (6.8 kΩ)	T	C43	4030006870	S.CERAMIC	C1608 JB 1H 222K-T
477	7030003500	S.RESISTOR	ERJ3GEYJ 332 V (3.3 kΩ)	T	C44	4030007080	S.CERAMIC	C1608 CH 1H 390J-T
1478 1479	7030003520 7030003480	S.RESISTOR S.RESISTOR	ERJ3GEYJ 472 V (4.7 kΩ) ERJ3GEYJ 222 V (2.2 kΩ)	Т	C45 C46	4030017800 4030007130	S.CERAMIC S.CERAMIC	C1608 CH 1H 561J-T C1608 CH 1H 101J-T
4/3	7030003400	3.HE3I310H	[FR3100]	В	C47	4030007130	S.CERAMIC	C1608 JB 1H 821K-T
	7030003540	S.RESISTOR	ERJ3GEYJ 682 V (6.8 kΩ)	_	C48	4030007170	S.CERAMIC	C1608 CH 1H 221J-T
			[FR3000]	В	C49	4030007170	S.CERAMIC	C1608 CH 1H 221J-T
480	7030003560	S.RESISTOR	ERJ3GEYJ 103 V (10 kΩ)	В	C50	4030007150	S.CERAMIC	C1608 CH 1H 151J-T
181	7030003660	S.RESISTOR	ERJ3GEYJ 683 V (68 kΩ)	_	C51	4030007030	S.CERAMIC	C1608 CH 1H 150J-T
	700000070	0.05010700	[FR3000]	В	C52	4030007150	S.CERAMIC	C1608 CH 1H 151J-T
	7030003670	S.RESISTOR	ERJ3GEYJ 823 V (82 kΩ) [FR3100]	В	C53 C54	4030017490 4030011600	S.CERAMIC S.CERAMIC	C1608 JB 1A 105K-T C1608 JB 1E 104K-T
486	7030001230	S.RESISTOR	MCR50JZHJ 680 Ω (681)	Т	C56	4030011600	S.CERAMIC	C1608 JB 1E 104K-T
487	7030003410	S.RESISTOR	ERJ3GEYJ 561 V (560 Ω)	В	C58	4030017490	S.CERAMIC	C1608 JB 1A 105K-T
488	7030003480	S.RESISTOR	ERJ3GEYJ 222 V (2.2 kΩ)	Т	C59	4030017490	S.CERAMIC	C1608 JB 1A 105K-T
489	7030003440	S.RESISTOR	ERJ3GEYJ 102 V (1 kΩ)	Т	C60	4030008860	S.CERAMIC	C1608 JB 1H 153K-T
492	7030003470	S.RESISTOR	ERJ3GEYJ 182 V (1.8 kΩ)	Т	C61	4030008860	S.CERAMIC	C1608 JB 1H 153K-T
493	7030003480	S.RESISTOR	ERJ3GEYJ 222 V (2.2 kΩ)	T	C62	4030006880	S.CERAMIC	C1608 JB 1H 472K-T
494 495	7030003640	S.RESISTOR	ERJ3GEYJ 473 V (47 kΩ)	T B	C63 C64	4030010770	S.CERAMIC	C1608 JB 1H 392K-T C1608 JB 1H 102K-T
495 496	7030003680 7030003500	S.RESISTOR S.RESISTOR	ERJ3GEYJ 104 V (100 kΩ) ERJ3GEYJ 332 V (3.3 kΩ)	T	C66	4030006860 4030008850	S.CERAMIC S.CERAMIC	C1608 JB 1H 123K-T
490 497	7030003500	S.RESISTOR	ERJ3GEYJ 472 V (4.7 kΩ)	В	C67	4030008830	S.CERAMIC S.CERAMIC	C1608 CH 1H 331J-T
497 498	7030003520	S.RESISTOR	ERJ3GEYJ 472 V (4.7 kΩ)	Т	C68	4030070700	S.CERAMIC S.CERAMIC	C1608 CH 1H 3313-1 C1608 CH 1H 221J-T
500	7030003680	S.RESISTOR	ERJ3GEYJ 104 V (100 kΩ)	Ť	C70	4030009980	S.CERAMIC	C1608 JB 1H 152K-T
501	7030003640	S.RESISTOR	ERJ3GEYJ 473 V (47 kΩ)	Т	C71	4030008900	S.CERAMIC	C1608 JB 1H 333K-T
503	7030003680	S.RESISTOR	ERJ3GEYJ 104 V (100 kΩ)	T	C72	4030007100	S.CERAMIC	C1608 CH 1H 560J-T
504	7030003680	S.RESISTOR	ERJ3GEYJ 104 V (100 kΩ)	В	C74	4550006480	S.TANTALUM	TEESVA 1C 475M8L
505 506	7030003200	S.RESISTOR	ERJ3GEY J 100 V (10 Ω)	T	C76	4030011600	S.CERAMIC	C1608 JB 1E 104K-T
506 508	7030003410 7030003560	S.RESISTOR S.RESISTOR	ERJ3GEYJ 561 V (560 Ω) ERJ3GEYJ 103 V (10 kΩ)	B B	C77 C78	4030009490 4030007150	S.CERAMIC S.CERAMIC	C1608 JB 1H 821K-T
508 509	7030003560	S.RESISTOR	ERJ3GEYJ 103 V (10 kΩ)	В	C80	4030007150	S.CERAMIC S.CERAMIC	C1608 CH 1H 151J-T C1608 JB 1H 473K-T
510	7030003360	S.RESISTOR	ERJ3GEYJ 100 V (10 KΩ)	T	C83	4030011600	S.CERAMIC S.CERAMIC	C1608 JB 1E 104K-T
511	7030003200	S.RESISTOR	ERJ3GEYJ 473 V (47 kΩ)	Ť	C84	4030006860	S.CERAMIC	C1608 JB 1H 102K-T
512	7030003440	S.RESISTOR	ERJ3GEYJ 102 V (1 kΩ)	Т	C85	4030017490	S.CERAMIC	C1608 JB 1A 105K-T
3519	7030003700	S.RESISTOR	ERJ3GEYJ 154 V (150 kΩ)	Т	C87	4030011600	S.CERAMIC	C1608 JB 1E 104K-T
520	7030003620	S.RESISTOR	ERJ3GEYJ 333 V (33 kΩ)	T	C88	4030011600	S.CERAMIC	C1608 JB 1E 104K-T
		S.RESISTOR	ERJ3GEYJ 473 V (47 kΩ)	В	C89	4030008870	S.CERAMIC	C1608 JB 1H 183K-T
521 522	7030003640 7030003520	S.RESISTOR	ERJ3GEYJ 473 V (47 κΩ)	Т	C90	4030011600	S.CERAMIC	C1608 JB 1E 104K-T

[FR3000]: IC-FR3000, [FR3100]: IC-FR3100

M.=Mounted side (T: Mounted on the Top side, B: Mounted on the Bottom side) S.=Surface mount

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[LOGIC UNIT]

REF	ORDER		DESCRIPTION	M	REF	ORDER		DESCRIPTION	М.
NO.	NO.			М.	NO.	NO.			
C91	4030009490	S.CERAMIC	C1608 JB 1H 821K-T	T	C189	4030007090	S.CERAMIC	C1608 CH 1H 470J-T	Ţ
C92 C93	4030008650	S.CERAMIC	C1608 JB 1H 332K-T	B	C190	4030007090	S.CERAMIC	C1608 CH 1H 470J-T	E
C93 C94	4030012610 4550006250	S.CERAMIC S.TANTALUM	C2012 JB 1C 474K-T TEESVA 1A 106M8L	B B	C191 C192	4030007090 4030007090	S.CERAMIC S.CERAMIC	C1608 CH 1H 470J-T C1608 CH 1H 470J-T	
C94 C95	4510004510	ELECTROLYTIC	25 MV 470 HC	-	C192	4030007090	S.CERAMIC	C1608 CH 1H 470J-T	
C96	4030011600	S.CERAMIC	C1608 JB 1E 104K-T	B	C194	4030007090	S.CERAMIC	C1608 CH 1H 470J-T	١i
C97	4510004510	ELECTROLYTIC	25 MV 470 HC	T	C195	4030007090	S.CERAMIC	C1608 CH 1H 470J-T	1
C98	4030011600	S.CERAMIC	C1608 JB 1E 104K-T	T	C197	4030007090	S.CERAMIC	C1608 CH 1H 470J-T	T
C99	4030011600	S.CERAMIC	C1608 JB 1E 104K-T	T	C198	4030007090	S.CERAMIC	C1608 CH 1H 470J-T	E
C100	4510007040	ELECTROLYTIC	50 MV 10 HWN	T	C199	4030007090	S.CERAMIC	C1608 CH 1H 470J-T	E
C103	4030017200	S.CERAMIC	GRM31BR32J102KY01L	В	C200	4030007090	S.CERAMIC	C1608 CH 1H 470J-T	I
C106	4030008900	S.CERAMIC	C1608 JB 1H 333K-T	Ţ	C201	4030007090	S.CERAMIC	C1608 CH 1H 470J-T	Ţ
C107	4510005310	S.ELECTROLYTIC		T B	C202	4030007090	S.CERAMIC	C1608 CH 1H 470J-T	B
C108 C109	4030011600 4510004630	S.CERAMIC S.ELECTROLYTIC	C1608 JB 1E 104K-T	T	C203 C204	4030007090 4030007090	S.CERAMIC S.CERAMIC	C1608 CH 1H 470J-T C1608 CH 1H 470J-T	;
C110	4510004630	S.ELECTROLYTIC		+	C205	4030007090	S.CERAMIC	C1608 CH 1H 470J-T	Ιi
C111	4510005280	ELECTROLYTIC	6.3 MV 220 HC	†	C206	4030007090	S.CERAMIC	C1608 CH 1H 470J-T	Ė
C112	4030011600	S.CERAMIC	C1608 JB 1E 104K-T	B	C207	4030007090	S.CERAMIC	C1608 CH 1H 470J-T	E
C113	4030007170	S.CERAMIC	C1608 CH 1H 221J-T	В	C208	4030007090	S.CERAMIC	C1608 CH 1H 470J-T	Т
C114	4550006250	S.TANTALUM	TEESVA 1A 106M8L	В	C209	4030007090	S.CERAMIC	C1608 CH 1H 470J-T	E
C115	4550003250	S.TANTALUM	TEESVA 1V 474M8L	T	C210	4030007090	S.CERAMIC	C1608 CH 1H 470J-T	T
C116	4030007130	S.CERAMIC	C1608 CH 1H 101J-T	В	C211	4030007090	S.CERAMIC	C1608 CH 1H 470J-T	T
C117	4030011600	S.CERAMIC	C1608 JB 1E 104K-T	T	C212	4030007090	S.CERAMIC	C1608 CH 1H 470J-T	T
C118	4030011600	S.CERAMIC	C1608 JB 1E 104K-T	В	C213	4030007090	S.CERAMIC	C1608 CH 1H 470J-T	E
C123	4030011600	S.CERAMIC	C1608 JB 1E 104K-T	B	C214	4030007090	S.CERAMIC	C1608 CH 1H 470J-T	I
C124	4030011600	S.CERAMIC	C1608 JB 1E 104K-T	T	C215	4030007090 4030007090	S.CERAMIC	C1608 CH 1H 470J-T	E
C125 C126	4030011600 4550006250	S.CERAMIC S.TANTALUM	C1608 JB 1E 104K-T TEESVA 1A 106M8L	T	C216 C217	4030007090	S.CERAMIC S.CERAMIC	C1608 CH 1H 470J-T C1608 CH 1H 470J-T	I
C127	4030008880	S.CERAMIC	C1608 JB 1H 223K-T	+	C217	4030007090	S.CERAMIC	C1608 CH 1H 470J-T	1
C128	4030006880	S.CERAMIC	C1608 JB 1H 103K-T	+	C218	4030007090	S.CERAMIC	C1608 CH 1H 470J-T	l b
2129	4030011600	S.CERAMIC	C1608 JB 1E 104K-T	B	C220	4030007090	S.CERAMIC	C1608 CH 1H 470J-T	Ī
C130	4030007090	S.CERAMIC	C1608 CH 1H 470J-T	В	C221	4030007090	S.CERAMIC	C1608 CH 1H 470J-T	T
C131	4030007090	S.CERAMIC	C1608 CH 1H 470J-T	В	C223	4030007090	S.CERAMIC	C1608 CH 1H 470J-T	В
C132	4030007090	S.CERAMIC	C1608 CH 1H 470J-T	В	C224	4030007090	S.CERAMIC	C1608 CH 1H 470J-T	В
C133	4030007090	S.CERAMIC	C1608 CH 1H 470J-T	В	C225	4030007090	S.CERAMIC	C1608 CH 1H 470J-T	В
C134	4030007090	S.CERAMIC	C1608 CH 1H 470J-T	T	C226	4030007090	S.CERAMIC	C1608 CH 1H 470J-T	E
2135	4030007090	S.CERAMIC	C1608 CH 1H 470J-T	T	C227	4030007090	S.CERAMIC	C1608 CH 1H 470J-T	B
C136	4030007090	S.CERAMIC	C1608 CH 1H 470J-T	Ţ	C228	4030007090	S.CERAMIC	C1608 CH 1H 470J-T	B
2137	4030007090	S.CERAMIC	C1608 CH 1H 470 J T	T B	C229	4030007090	S.CERAMIC	C1608 CH 1H 470J-T	B
C138 C139	4030007090 4030007050	S.CERAMIC S.CERAMIC	C1608 CH 1H 470J-T C1608 CH 1H 220J-T	T	C230 C231	4030007090 4030007090	S.CERAMIC S.CERAMIC	C1608 CH 1H 470J-T C1608 CH 1H 470J-T	B
C140	4030007030	S.CERAMIC	C1608 CH 1H 150J-T	+	C232	4030007090	S.CERAMIC	C1608 CH 1H 4703-1	B
C141	4030007030	S.CERAMIC	C1608 CH 1H 470J-T	В	C233	4030007030	S.CERAMIC	C1608 JB 1H 102K-T	Ϊ́́
C142	4030006900	S.CERAMIC	C1608 JB 1H 103K-T	В	C234	4030006860	S.CERAMIC	C1608 JB 1H 102K-T	В
C143	4030006900	S.CERAMIC	C1608 JB 1H 103K-T	В	C235	4030006860	S.CERAMIC	C1608 JB 1H 102K-T	В
C144	4030011600	S.CERAMIC	C1608 JB 1E 104K-T	В	C236	4030006860	S.CERAMIC	C1608 JB 1H 102K-T	В
C145	4030011600	S.CERAMIC	C1608 JB 1E 104K-T	В	C237	4030006860	S.CERAMIC	C1608 JB 1H 102K-T	В
C146	4030011600	S.CERAMIC	C1608 JB 1E 104K-T	В	C238	4030006860	S.CERAMIC	C1608 JB 1H 102K-T	В
C147	4030011600	S.CERAMIC	C1608 JB 1E 104K-T	В	C239	4510004510	ELECTROLYTIC	25 MV 470 HC	I
C148	4030006860	S.CERAMIC	C1608 JB 1H 102K-T	В	C240	4030006860	S.CERAMIC	C1608 JB 1H 102K-T	B
C149 C150	4030011600	S.CERAMIC	C1608 JB 1E 104K-T	B	C241 C242	4510004630	S.ELECTROLYTIC		l T
C151	4030011600 4030007090	S.CERAMIC S.CERAMIC	C1608 JB 1E 104K-T C1608 CH 1H 470J-T	B	C242	4030007080 4030006860	S.CERAMIC S.CERAMIC	C1608 CH 1H 390J-T C1608 JB 1H 102K-T	l P
C152	4030007090	S.CERAMIC	C1608 CH 1H 470J-T	В	C247	4510004640	S.ELECTROLYTIC		Ιż
2153	4030007090	S.CERAMIC	C1608 CH 1H 470J-T	В	C248	4510004630	S.ELECTROLYTIC		ΙŤ
C154	4030007090	S.CERAMIC	C1608 CH 1H 470J-T	В	C249	4510004640	S.ELECTROLYTIC		T
C155	4030007090	S.CERAMIC	C1608 CH 1H 470J-T	Т	C250	4030011600	S.CERAMIC	C1608 JB 1E 104K-T	В
C156	4030007090	S.CERAMIC	C1608 CH 1H 470J-T	T	C251	4030011600	S.CERAMIC	C1608 JB 1E 104K-T	Т
2157	4030007090	S.CERAMIC	C1608 CH 1H 470J-T	T	C252	4030011600	S.CERAMIC	C1608 JB 1E 104K-T	Т
C158	4030007090	S.CERAMIC	C1608 CH 1H 470J-T	T	C253	4030006860	S.CERAMIC	C1608 JB 1H 102K-T	В
2159	4030007090	S.CERAMIC	C1608 CH 1H 470J-T	B	C254	4510004630	S.ELECTROLYTIC		Ţ
2160	4030007090	S.CERAMIC	C1608 CH 1H 470J-T	T	C255	4030011600	S.CERAMIC	C1608 JB 1E 104K-T	B
C161 C162	4030007090 4030007090	S.CERAMIC S.CERAMIC	C1608 CH 1H 470J-T	T	C260 C261	4030017490 4550002960	S.CERAMIC S.TANTALUM	C1608 JB 1A 105K-T	T
2163	4030007090	S.CERAMIC S.CERAMIC	C1608 CH 1H 470J-T C1608 CH 1H 470J-T	+	C261	4030007070	S.CERAMIC	TEESVA 1C 155M8L C1608 CH 1H 330J-T	
2164	4030007090	S.CERAMIC	C1608 CH 1H 470J-T	+	C263	4030007070	S.CERAMIC	C1608 CH 1H 330J-T	
165	4030007090	S.CERAMIC	C1608 CH 1H 470J-T	+	C264	4030007070	S.CERAMIC	C1608 JB 1H 102K-T	
166	4030007030	S.CERAMIC	C1608 CH 1H 470J-T	+	C265	4510004630	S.ELECTROLYTIC		1
167	4030007090	S.CERAMIC	C1608 CH 1H 470J-T	Ť	C266	4030017490	S.CERAMIC	C1608 JB 1A 105K-T	i
168	4030007090	S.CERAMIC	C1608 CH 1H 470J-T	T	C270	4030008880	S.CERAMIC	C1608 JB 1H 223K-T	1
169	4030007090	S.CERAMIC	C1608 CH 1H 470J-T	T	C271	4030008920	S.CERAMIC	C1608 JB 1H 473K-T	1
170	4030007090	S.CERAMIC	C1608 CH 1H 470J-T	T	C272	4030010020	S.CERAMIC	C1608 JB 1H 122K-T	1
171	4030007090	S.CERAMIC	C1608 CH 1H 470J-T	T	C273	4030009980	S.CERAMIC	C1608 JB 1H 152K-T]
172	4030007090	S.CERAMIC	C1608 CH 1H 470J-T	В	C274	4030008900	S.CERAMIC	C1608 JB 1H 333K-T	1
173	4030007090	S.CERAMIC	C1608 CH 1H 470J-T	B	C275	4030008900	S.CERAMIC	C1608 JB 1H 333K-T	1
174	4030007090	S.CERAMIC	C1608 CH 1H 470J-T	T	C276	4030010020	S.CERAMIC	C1608 JB 1H 122K-T]
176	4030007090	S.CERAMIC	C1608 CH 1H 470J-T	T	C277	4030006900	S.CERAMIC	C1608 JB 1H 103K-T	1
177 178	4030007090 4030007090	S.CERAMIC S.CERAMIC	C1608 CH 1H 470J-T C1608 CH 1H 470J-T	B	C282 C283	4030017490 4550006250	S.CERAMIC S.TANTALUM	C1608 JB 1A 105K-T TEESVA 1A 106M8L	l É
179	4030007090	S.CERAMIC	C1608 CH 1H 470J-T	B	C287	4550006250	S.TANTALUM	TEESVA 1A 106M8L	-
180	4030007090	S.CERAMIC	C1608 CH 1H 470J-T	B	C288	4510004630	S.ELECTROLYTIC		-
181	4030007630	S.CERAMIC	C1608 JB 1H 102K-T	В	C289	4550006250	S.TANTALUM	TEESVA 1A 106M8L	-
182	4030007090	S.CERAMIC	C1608 CH 1H 470J-T	T	C290	4510004630	S.ELECTROLYTIC		-
	4030007090	S.CERAMIC	C1608 CH 1H 470J-T	†	C292	4550006250	S.TANTALUM	TEESVA 1A 106M8L	E
184 l			C1608 CH 1H 470J-T	Ť	C294	4550006250	S.TANTALUM	TEESVA 1A 106M8L	1 7
	4030007090	S.CERAMIC	C 1000 CH 1H 4/03-1		0_0.				
C184 C185 C186	4030007090 4030007090	S.CERAMIC S.CERAMIC	C1608 CH 1H 470J-T	T	C295	4550006250	S.TANTALUM	TEESVA 1A 106M8L	1
185									

[FR3000]: IC-FR3000, [FR3100]: IC-FR3100

ILOGIC UNIT1

REF NO.	ORDER NO.		DESCRIPTION	М.
C301	4510004630	S.ELECTROLYTIC		Ţ
C302	4510004630	S.ELECTROLYTIC	ECEV1CA100SR	T
C303	4030011600	S.CERAMIC	C1608 JB 1E 104K-T	T
C307 C308	4030007050 4030017490	S.CERAMIC S.CERAMIC	C1608 CH 1H 220J-T C1608 JB 1A 105K-T	B
C308	4030017490	S.CERAMIC	C1608 JB 1E 104K-T	P
C311	4030011600	S.CERAMIC	C1608 JB 1E 104K-T	В
C312	4030011600	S.CERAMIC	C1608 JB 1E 104K-T	T
C313	4030011600	S.CERAMIC	C1608 JB 1E 104K-T	В
C316	4030017490	S.CERAMIC	C1608 JB 1A 105K-T	В
C322	4030011600	S.CERAMIC	C1608 JB 1E 104K-T	T
C323	4030017490	S.CERAMIC	C1608 JB 1A 105K-T	B
C325	4550006250	S.TANTALUM	TEESVA 1A 106M8L	B
C326	4030011600	S.CERAMIC	C1608 JB 1E 104K-T	B
C328 C329	4550006250 4550006250	S.TANTALUM S.TANTALUM	TEESVA 1A 106M8L TEESVA 1A 106M8L	B
C330	4550006250	S.TANTALUM	TEESVA 1A 106M8L	T
C332	4030011600	S.CERAMIC	C1608 JB 1E 104K-T	В
C335	4550006480	S.TANTALUM	TEESVA 1C 475M8L	В
C337	4510004630	S.ELECTROLYTIC	ECEV1CA100SR	T
C339	4030011600	S.CERAMIC	C1608 JB 1E 104K-T	В
C340	4030017490	S.CERAMIC	C1608 JB 1A 105K-T	Т
C341	4030017490	S.CERAMIC	C1608 JB 1A 105K-T	Т
C342	4030011600	S.CERAMIC	C1608 JB 1E 104K-T	T
C343	4030006900	S.CERAMIC	C1608 JB 1H 103K-T	В
C345	4030006860	S.CERAMIC	C1608 JB 1H 102K-T	T
C346	4030006900	S.CERAMIC	C1608 JB 1H 103K-T	В
C347	4550000530	S.TANTALUM	TEESVA 1V 104M8L	B
C361	4030006860	S.CERAMIC	C1608 JB 1H 102K-T	T
C362	4030007050	S.CERAMIC	C1608 CH 1H 220J-T	T
C363	4030006860	S.CERAMIC	C1608 JB 1H 102K-T	T
C364 C366	4030007050 4030007050	S.CERAMIC S.CERAMIC	C1608 CH 1H 220J-T C1608 CH 1H 220J-T	B
C371	4030007030	S.CERAMIC	C1608 JB 1E 104K-T	В
C372	4030007110	S.CERAMIC	C1608 CH 1H 680J-T	B
C373	4030008870	S.CERAMIC	C1608 JB 1H 183K-T	В
C375	4310000900	MYLAR	250 MMW 105K-EF	T
C380	4030011600	S.CERAMIC	C1608 JB 1E 104K-T	B
C382	4030007050	S.CERAMIC	C1608 CH 1H 220J-T	Т Т
C383	4030007050	S.CERAMIC	C1608 CH 1H 220J-T	В
C384	4030011600	S.CERAMIC	C1608 JB 1E 104K-T	В
C386	4550006480	S.TANTALUM	TEESVA 1C 475M8L	В
C388	4030011600	S.CERAMIC	C1608 JB 1E 104K-T	T
C389	4030006900	S.CERAMIC	C1608 JB 1H 103K-T	В
C390	4030011600	S.CERAMIC	C1608 JB 1E 104K-T	T
C395	4030011600	S.CERAMIC	C1608 JB 1E 104K-T	T
C396	4030017490	S.CERAMIC	C1608 JB 1A 105K-T	T
C397	4030011600	S.CERAMIC	C1608 JB 1E 104K-T	Ţ
C398	4030011600	S.CERAMIC	C1608 JB 1E 104K-T	T
C399 C407	4030011600	S.CERAMIC S.CERAMIC	C1608 JB 1E 104K-T C1608 JB 1E 104K-T	+
C407	4030077090	S.CERAMIC	C1608 CH 1H 470J-T	't
C409	4030007030	S.CERAMIC	C1608 JB 1H 222K-T	†
C411	4030007130	S.CERAMIC	C1608 CH 1H 101J-T	ΙĖ
C412	4030006860	S.CERAMIC	C1608 JB 1H 102K-T	Ť
C413	4030011600	S.CERAMIC	C1608 JB 1E 104K-T	Ť
C414	4030017490	S.CERAMIC	C1608 JB 1A 105K-T	В
C415	4030011600	S.CERAMIC	C1608 JB 1E 104K-T	T
C416	4030011600	S.CERAMIC	C1608 JB 1E 104K-T	В
C417	4030011600	S.CERAMIC	C1608 JB 1E 104K-T	В
C418	4030011600	S.CERAMIC	C1608 JB 1E 104K-T	В
C419	4340000060	S.MYLAR	ECH-U 1C103JB5	В
C420	4550006250	S.TANTALUM	TEESVA 1A 106M8L	Ţ
C421	4030007050	S.CERAMIC	C1608 CH 1H 220J-T	В
C422	4030007050	S.CERAMIC	C1608 CH 1H 220J-T	В
C423	4030007050	S.CERAMIC	C1608 CH 1H 220J-T	B
C424	4030007050	S.CERAMIC	C1608 CH 1H 220J-T C1608 JB 1E 104K-T	T
C425 C426	4030011600 4550006250	S.CERAMIC S.TANTALUM	TEESVA 1A 106M8L	B
C427	4030007170	S.CERAMIC	C1608 CH 1H 221J-T	В
C428	4030007170	S.CERAMIC	C1608 JB 1E 104K-T	T
C429	4030011600	S.CERAMIC	C1608 JB 1E 104K-T	Ϊ́τ
C430	4030011600	S.CERAMIC	C1608 JB 1E 104K-T	Ť
C431	4030011600	S.CERAMIC	C1608 JB 1E 104K-T	Ť
C432	4030007050	S.CERAMIC	C1608 CH 1H 220J-T	В
C433	4030006860	S.CERAMIC	C1608 JB 1H 102K-T	В
C434	4510004630	S.ELECTROLYTIC		T
C435	4030007090	S.CERAMIC	C1608 CH 1H 470J-T	T
C436	4030007090	S.CERAMIC	C1608 CH 1H 470J-T	В
C437	4030011600	S.CERAMIC	C1608 JB 1E 104K-T	Ţ
C438	4030006860	S.CERAMIC	C1608 JB 1H 102K-T	B
C439	4030011600	S.CERAMIC	C1608 JB 1E 104K-T	Ţ
C440	4030011600	S.CERAMIC	C1608 JB 1E 104K-T	Ţ
C441	4030018060	S.CERAMIC	C5750 JB 2E 474KT	ĮŢ
C442	4030017490	S.CERAMIC	C1608 JB 1A 105K-T	ĮŢ
C443 C447	4030006900	S.CERAMIC	C1608 JB 1H 103K-T	T
	4030017490	S.CERAMIC	C1608 JB 1A 105K-T	T
C448	4550002980	S.TANTALUM	TEESVA 1C 225M8L	T

[LOGI	C UNIT]			
REF NO.	ORDER NO.		DESCRIPTION	М.
C449 C450 C451 C452 C453 C454 C455 C456 C457	455000460 4030011600 4550006250 4030017490 4510005360 4030008650 4030007130 4030006860 4030011810	S.TANTALUM S.CERAMIC S.TANTALUM S.CERAMIC S.ELECTROLYTIC S.CERAMIC S.CERAMIC S.CERAMIC S.CERAMIC	TEESVA 1C 105M8L C1608 JB 1E 104K-T TEESVA 1A 106M8L C1608 JB 1A 105K-T ECEV1HA4R7SR [FR3100] C1608 JB 1H 332K-T C1608 CH 1H 101J-T C1608 JB 1H 102K-T C1608 JB 1A 224K-T [FR3100]	B T B T B B B
RL1 RL2	6330001640 6330001640	RELAY RELAY	ATX209 ATX209	T T
J1 J2 J3 J4 J5 J6 J7 J8 J9 J10 J11 J112 J13 J14 J15 J16	6510022590 6510022590 6510022580 6510022620 6510018970 6510022620 6510018430 6510018430 6510018940 6510018940 6510022190 6510022190 6510018960 6510018960	S.CONNECTOR S.CONNECTOR S.CONNECTOR S.CONNECTOR S.CONNECTOR S.CONNECTOR S.CONNECTOR S.CONNECTOR S.CONNECTOR S.CONNECTOR S.CONNECTOR S.CONNECTOR S.CONNECTOR S.CONNECTOR S.CONNECTOR S.CONNECTOR S.CONNECTOR S.CONNECTOR S.CONNECTOR S.CONNECTOR	22FMN-BMTTR-A-TBT 22FMN-BMTTR-A-TBT 24FMN-BMTTR-A-TBT 10FMN-BMTTR-A-TBT 10FMN-BMTTR-A-TBT 10FMN-BMTTR-A-TBT AVN330C038P AVN330C038P B11B-PH-SM3-TB B13B-PH-SM3-TB B13B-PH-SM3-TB B13B-PH-SM3-TB B6B-ZR-SM3-TF B3B-PH-SM3-TB B2B-PH-SM3-TB B2B-PH-SM3-TB	B B B B B T T T B T T T T
F1 F2 F3	5210000030 5220000020 5220000020	FUSE HOLDER HOLDER	FGB 1A (FGB0 125V) S-N5051 S-N5051	T T T
T1 T2 T5 T6 T7	5920000570 5920000570 5920000860 5910000970 5920000570 5910000970 5920000570 5920000570	TRANSFORMER TRANSFORMER TRANSFORMER TRANSFORMER TRANSFORMER TRANSFORMER TRANSFORMER TRANSFORMER TRANSFORMER	12T01 12T01 PLA10AS1030R7R2 ATS-007 [Other] 12T01 [USA2] ATS-007 [Other] 12T01 [USA2] ATS-007 [Other] 12T01 [USA2]	T T T T T T
W1 W2 W3 W4 W5 W7	7030003860 7030003860 8900008940 8900009230 8900008740 7030003860 7030007150	S.RESISTOR S.RESISTOR CABLE CABLE CABLE S.RESISTOR S.RESISTOR	ERJ3GE JPW V ERJ3GE JPW V OPC-886 (P=1 N=10 L=75) OPC-908 (P=1 N=10 L=60) OPC-867 (P=1 N=24 L=60) ERJ3GE JPW V MCR50JZHJ JPW (000)	B B T B T
W10 W11 W12 W13 W14 W15 W16 W17 W18 W19 W20 W21	890009270 890009270 7030003860 7030003860 7030003860 7030003860 7030003860 7030003860 7030003860 7030003860 7030003860 7030003860	CABLE CABLE S.RESISTOR	[FR3000] OPC-912 (P=1 N=22 L=70) OPC-912 (P=1 N=22 L=70) ERJ3GE JPW V	T B B T T T B B T T
EP1 EP2 EP3	0910056271 6910014900 6910014890	PCB BEAD E.OTHER	B 6002A FRC-50-12-6.5 FRC-WC1	ВВ

[FR3000]: IC-FR3000, [FR3100]: IC-FR3100

IBX UNIT

IBX UNIT

[RX U	INIT]				[F	RX U	NIT]			
REF NO.	ORDER NO.		DESCRIPTION	М.		REF NO.	ORDER NO.		DESCRIPTION	М.
IC1	1190000450	S.IC	GN2011-Q (TX)	Т	R	₹1	7030003350	S.RESISTOR	ERJ3GEYJ 181 V (180 Ω)	
IC2 IC3	1110003490 1180000420	S.IC S.IC	TA31136FN (D,EL) TA78L05F (TE12R)	T			7030003670	S.RESISTOR	[FR3100] ERJ3GEYJ 823 V (82 kΩ)	Т
IC4	1140002131	S.IC	MB1511PFV-G-BND-ER	В				0.11201011011	[FR3000]	
IC5 IC6	1110002750 1180000420	S.IC S.IC	TA75S01F (TE85R) TA78L05F (TE12R)	B B		R2 R3	7030003680 7030003680	S.RESISTOR S.RESISTOR	ERJ3GEYJ 104 V (100 kΩ) ERJ3GEYJ 104 V (100 kΩ)	B B
IC7	1180000420	S.IC	TA78L06F (TE12L)	T		13 14	7030003500	S.RESISTOR	ERJ3GEYJ 332 V (3.3 kΩ)	T
IC8	1110003780	S.IC	NJM2902V-TE1	Т		35	7030003500	S.RESISTOR	ERJ3GEYJ 332 V (3.3 kΩ)	T
					^R	R6	7030000180 7030000220	S.RESISTOR S.RESISTOR	MCR10EZHJ 22 Ω (220) [FR3100] MCR10EZHJ 47 Ω (470) [FR3000]	
Q1	1530003820	S.TRANSISTOR	2SC5337QS-T1	Т		R7	7030003290	S.RESISTOR	ERJ3GEYJ 560 V (56 Ω)	Т
Q3 Q6	1560000670 1530001950	S.FET S.TRANSISTOR	2SK1771 (TE85R) 2SC2712-GR (TE85R)	T B		₹8 ₹9	7030003530 7030000220	S.RESISTOR S.RESISTOR	ERJ3GEYJ 562 V (5.6 kΩ) MCR10EZHJ 47 Ω (470)	T B
Q7	1530001950	S.TRANSISTOR	2SC2712-GR (TE85R)	В		19 110	7030000220	S.RESISTOR	ERJ3GEYJ 562 V (5.6 kΩ)	T
Q8	1530002920	S.TRANSISTOR	2SC4226-T1 R25	В		R11	7030003530	S.RESISTOR	ERJ3GEYJ 562 V (5.6 kΩ)	T
Q9 Q14	1530003270 1530002920	S.TRANSISTOR S.TRANSISTOR	2SC4703-T2 SF 2SC4226-T1 R25	B B		R14 R15	7030003320 7030003320	S.RESISTOR S.RESISTOR	ERJ3GEYJ 101 V (100 Ω) ERJ3GEYJ 101 V (100 Ω)	T
Q15	1520000270	S.TRANSISTOR	2SB1182 TL Q	В	R	R17	7030003320	S.RESISTOR	ERJ3GEYJ 101 V (100 Ω)	Т
Q16 Q18	1530002060 1560000540	S.TRANSISTOR S.FET	2SC4081 T106 R 2SK880-Y (TE85R)	B B		R19 R25	7030003200 7030003550	S.RESISTOR S.RESISTOR	ERJ3GEYJ 100 V (10 Ω) ERJ3GEYJ 822 V (8.2 kΩ)	T
Q19	1590000440	S.TRANSISTOR	DTA143ZUA T106	T		35	7030003530	S.RESISTOR	ERJ3GEYJ 472 V (4.7 kΩ)	Ť
Q20	1510000510	S.TRANSISTOR	2SA1576A T106R	T		36	7030003520	S.RESISTOR	ERJ3GEYJ 472 V (4.7 kΩ)	T
Q21 Q22	1530002060 1530002840	S.TRANSISTOR S.TRANSISTOR	2SC4081 T106 R 2SC4116-Y (TE85R)	T B		R37 R39	7030003320 7030003520	S.RESISTOR S.RESISTOR	ERJ3GEYJ 101 V (100 Ω) ERJ3GEYJ 472 V (4.7 kΩ)	T B
Q23	1590000430	S.TRANSISTOR	DTC144EUA T106	В	R	R40	7030003560	S.RESISTOR	ERJ3GEYJ 103 V (10 kΩ)	В
Q24	1530002050	S.TRANSISTOR	2SC3661-TB	В		R41 R42	7030003560 7030003560	S.RESISTOR S.RESISTOR	ERJ3GEYJ 103 V (10 kΩ) ERJ3GEYJ 103 V (10 kΩ)	B B
						142 143	7030003560	S.RESISTOR	ERJ3GEYJ 103 V (10 kΩ)	В
D3	1720000700	S.VARICAP	1SV305 (TPL3)	T		344	7030003520	S.RESISTOR	ERJ3GEYJ 472 V (4.7 kΩ)	В
D4 D15	1720000700 1750000140	S.VARICAP S.DIODE	1SV305 (TPL3) 1SS268 (TE85R)	T B		R45 R48	7030003560 7030003280	S.RESISTOR S.RESISTOR	ERJ3GEYJ 103 V (10 kΩ) ERJ3GEYJ 470 V (47 Ω)	B T
D16	1750000140	S.DIODE	1SS268 (TE85R)	В	R	R49	7030003560	S.RESISTOR	ERJ3GEYJ 103 V (10 kΩ)	В
D17 D18	1750000070 1790001250	S.DIODE S.DIODE	1SS226 (TE85R)	T B		R50 R52	7030003640	S.RESISTOR	ERJ3GEY J 473 V (47 kΩ)	B B
010	1790001250	3.DIODE	MA2S111-(TX)	-		152 153	7030003640 7030003680	S.RESISTOR S.RESISTOR	ERJ3GEYJ 473 V (47 kΩ) ERJ3GEYJ 104 V (100 kΩ)	В
				_	R	R54	7030003780	S.RESISTOR	ERJ3GEYJ 684 V (680 kΩ)	Т
FI1 FI5	2030000260 2020001030	S.MONOLITH CERAMIC	FL-361 (31.65 MHz) CFWLA455KGFA-B0 (CFWS455G)	T		R55 R56	7030003600 7030003480	S.RESISTOR S.RESISTOR	ERJ3GEYJ 223 V (22 kΩ) ERJ3GEYJ 222 V (2.2 kΩ)	T
FI6	2020001010	CERAMIC	CFWLA455KFFA-B0 (CFWS455F)		R	R57	7510001670	S.THRMISTOR	NTCG16 4BH 103KT	Т
	2020001040	CEDAMIC	[FRG2] CFWLA455KEFA-B0 (CFWS455E)	Т		R58 R60	7030003500 7030003680	S.RESISTOR	ERJ3GEYJ 332 V (3.3 kΩ)	T
	2020001040	CERAMIC	[Other]	Т		160 161	7030003660	S.RESISTOR S.RESISTOR	ERJ3GEYJ 104 V (100 kΩ) ERJ3GEYJ 472 V (4.7 kΩ)	l ¦
						R62	7030003480	S.RESISTOR	ERJ3GEYJ 222 V (2.2 kΩ)	T
X1	6070000150	S DISCRIMINATOR	CDBCB455KCAY24-R0	Т		R63 R64	7030003420 7030003230	S.RESISTOR S.RESISTOR	ERJ3GEYJ 681 V (680 Ω) ERJ3GEYJ 180 V (18 Ω)	B B
X2	6050011670	XTAL	CR-757 (31.195 MHz)	Т	R	R65	7030003230	S.RESISTOR	ERJ3GEYJ 180 V (18 Ω)	В
Х3	6050011480	S.XTAL	CR-732 (12.800 MHz)	Т		R66 R67	7030003230 7030001010	S.RESISTOR S.RESISTOR	ERJ3GEYJ 180 V (18 Ω) MCR50JZHJ 10 Ω (100)	B B
						168	7030001010	S.RESISTOR	ERJ3GEYJ 472 V (4.7 kΩ)	В
L1	6200007750	S.COIL	LQW2BHN56NJ01L	T		R69	7030003480	S.RESISTOR	ERJ3GEYJ 222 V (2.2 kΩ)	В
L2 L3	6200010570 6200010570	S.COIL S.COIL	C6342A-R11J-A C6342A-R11J-A	T		R70 R71	7030010280 7030003400	S.RESISTOR S.RESISTOR	ERJ3GEYF 221 V (220 Ω) ERJ3GEYJ 471 V (470 Ω)	B B
L4	6200010590	S.COIL	C2520C-22NG-A	T	R	R72	7030003200	S.RESISTOR	ERJ3GEYJ 100 V (10 Ω)	В
L5 L6	6200010210 6200010570	S.COIL S.COIL	C2012C-22NG C6342A-R11J-A	T		R73 R74	7030003510 7030003480	S.RESISTOR S.RESISTOR	ERJ3GEYJ 392 V (3.9 kΩ) ERJ3GEYJ 222 V (2.2 kΩ)	B B
L7	6200010570	S.COIL	C6342A-R11J-A	Т		375	7030000220	S.RESISTOR	MCR10EZHJ 47 Ω (470)	В
L8	6200010490 6200010490	S.COIL S.COIL	458DB-1011=P3	T		R76	7030003400	S.RESISTOR	ERJ3GEYJ 471 V (470 Ω)	В
L9 L10	6200010490	S.COIL S.COIL	458DB-1011=P3 458DB-1011=P3	+		R77 R81	7030003200 7030003370	S.RESISTOR S.RESISTOR	ERJ3GEYJ 100 V (10 Ω) ERJ3GEYJ 271 V (270 Ω)	B B
L11	6200008730	S.COIL	ELJND R10J 0.1U	В		R85	7030003560	S.RESISTOR	ERJ3GEYJ 103 V (10 kΩ)	В
L12 L13	6200010010 6200010540	S.COIL S.COIL	C2012C-39NG C2012C-47NG	B B		R87 R88	7030003520 7030003280	S.RESISTOR S.RESISTOR	ERJ3GEYJ 472 V (4.7 kΩ) ERJ3GEYJ 470 V (47 Ω)	B B
L14	6200010440	S.COIL	C2520C-1R2G (1.2U)	Т	R	R92	7030003200	S.RESISTOR	ERJ3GEYJ 100 V (10 Ω)	Т
L15 L20	6200010540 6200002930	S.COIL S.COIL	C2012C-47NG ELJFC 1R5K-F	B		R93 R112	7030003280 7030003440	S.RESISTOR S.RESISTOR	ERJ3GEYJ 470 V (47 Ω) ERJ3GEYJ 102 V (1 kΩ)	T B
L20	6200002930	S.COIL	LQW2BHNR22J01L	В		R115	7030003440	S.RESISTOR	ERJ3GEYJ 101 V (100 Ω)	В
L22	6200008090	S.COIL	LQW2BHN68NJ01L	В		R116	7030003520	S.RESISTOR	ERJ3GEYJ 472 V (4.7 kΩ)	В
L23 L24	6200007760 6200008090	S.COIL S.COIL	LQW2BHN82NJ01L LQW2BHN68NJ01L	B B		R117 R118	7030003480 7030003200	S.RESISTOR S.RESISTOR	ERJ3GEYJ 222 V (2.2 kΩ) ERJ3GEYJ 100 V (10 Ω)	B B
L25	6200007230	S.COIL	LQW2BHN15NJ01L	В		1119	7030003260	S.RESISTOR	ERJ3GEYJ 221 V (220 Ω)	В
L27	6200007230	S.COIL	LQW2BHN15NJ01L	В		R120	7030003480	S.RESISTOR	ERJ3GEYJ 222 V (2.2 kΩ)	В
L29 L30	6200007230 6200008080	S.COIL S.COIL	LQW2BHN15NJ01L LQW2BHNR22J01L	B B		R121 R122	7030003480 7030003560	S.RESISTOR S.RESISTOR	ERJ3GEYJ 222 V (2.2 kΩ) ERJ3GEYJ 103 V (10 kΩ)	B B
L33	6200009970	S.COIL	C2012C-R39G	Т	R	R123	7030003560	S.RESISTOR	ERJ3GEYJ 103 V (10 kΩ)	В
L39 L40	6200008090 6200006710	S.COIL S.COIL	LQW2BHN68NJ01L MLF1608E 5R6K 5.6U	B		R126 R134	7030003680 7030003800	S.RESISTOR S.RESISTOR	ERJ3GEYJ 104 V (100 kΩ) ERJ3GEYJ 105 V (1 MΩ)	B B
L40 L41	6200009940	S.COIL	BLM21PG221SN1	Т		1134	7030003800	S.RESISTOR	ERJ3GEYJ 101 V (100 Ω)	Т
L42	6910011690	S.COIL	ACB1608M-600-T	B T		R136	7030003230	S.RESISTOR	ERJ3GEYJ 180 V (18 Ω)	В
L43 L44	6910011690 6910011690	S.COIL S.COIL	ACB1608M-600-T ACB1608M-600-T	B		R137 R138	7030003370 7030003470	S.RESISTOR S.RESISTOR	ERJ3GEYJ 271 V (270 Ω) ERJ3GEYJ 182 V (1.8 kΩ)	B B
L45	6910011690	S.COIL	ACB1608M-600-T	Т	R	R140	7030003490	S.RESISTOR	ERJ3GEYJ 272 V (2.7 kΩ)	В
L46 L47	6910011690 6910011690	S.COIL S.COIL	ACB1608M-600-T ACB1608M-600-T	T		R148 R149	7030003500 7030003200	S.RESISTOR S.RESISTOR	ERJ3GEYJ 332 V (3.3 kΩ) ERJ3GEYJ 100 V (10 Ω)	B
L48	6910011690	S.COIL	ACB1608M-600-T	В		R153	7030003470	S.RESISTOR	ERJ3GEYJ 182 V (1.8 kΩ) [Other]	Т
L49	6910011690	S.COIL	ACB1608M-600-T	T	_	0155	7030003490	S.RESISTOR	ERJ3GEYJ 272 V (2.7 kΩ) [FRG2]	
L50 L51	6910011690 6910011690	S.COIL S.COIL	ACB1608M-600-T ACB1608M-600-T	B		R155 R156	7030003520 7030003620	S.RESISTOR S.RESISTOR	ERJ3GEYJ 472 V (4.7 kΩ) ERJ3GEYJ 333 V (33 kΩ)	T
L53	6200007750	S.COIL	LQW2BHN56NJ01L	В		R157	7030003680	S.RESISTOR	ERJ3GEYJ 104 V (100 kΩ)	Т
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[FR3000]: IC-FR3000, [FR3100]: IC-FR3100

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REF ORDER **DESCRIPTION** M. NO. NO. R158 7030003560 S.RESISTOR ERJ3GEYJ 103 V (10 kΩ) ERJ3GEYJ 102 V (1 kΩ) R159 7030003440 S.RESISTOR R160 7030003520 S RESISTOR ERJ3GEYJ 472 V (4.7 kΩ) Т ERJ3GEYJ 470 V (47 Ω) R166 7030003280 S.RESISTOR Т R167 7030003740 S.RESISTOR ERJ3GEYJ 334 V (330 kΩ) [FR3000] Т 7030003750 S.RESISTOR ERJ3GEYJ 394 V (390 kΩ) [FR3100] Т R168 7030003640 S.RESISTOR ERJ3GEYJ 473 V (47 kΩ) Т R169 7030003520 S.RESISTOR ERJ3GEYJ 472 V (4.7 kΩ) 7030003520 S.RESISTOR ERJ3GEYJ 472 V (4.7 kΩ) R170 R171 7030003560 S RESISTOR ERJ3GEYJ 103 V (10 kΩ) B B ERJ3GEYJ 473 V (47 kΩ) 7030003640 R172 S.RESISTOR 7030003680 S.RESISTOR ERJ3GEYJ 104 V (100 kΩ) Т R173 S.RESISTOR 7030003700 ERJ3GEYJ 154 V (150 kΩ) R174 R175 7030003560 S.RESISTOR ERJ3GEYJ 103 V (10 kΩ) Т R176 7030003560 S RESISTOR ERJ3GEYJ 103 V (10 kΩ) B T 7030003560 ERJ3GEYJ 103 V (10 kΩ) R177 S.RESISTOR ERJ3GEYJ 101 V (100 Ω) В R178 7030003320 S.RESISTOR R179 7030003790 S.RESISTOR ERJ3GEYJ 824 V (820 kΩ) В R180 7030003770 S.RESISTOR ERJ3GEYJ 564 V (560 kΩ) В R181 7540000250 ABSORBER SA05C 401N R182 7030003200 S.RESISTOR ERJ3GEYJ 100 V (10 Ω) Т S.RESISTOR ERJ3GEYJ 100 V (10 Ω) R183 7030003200 R184 7030003210 S.RESISTOR ERJ3GEYJ 120 V (12 Ω) [FR3100] Т S.RESISTOR ERJ3GEYJ 220 V (22 Ω) 7030003240 [FR3000] Т R185 7030003280 S.RESISTOR ERJ3GEYJ 470 V (47 Ω) [FR3000] Т S.RESISTOR ERJ3GEYJ 101 V (100 Ω) 7030003320 [FR3100] Т R186 7030003210 S.RESISTOR ERJ3GEYJ 120 V (12 Ω) [FR3100] Т ERJ3GEYJ 220 V (22 Ω) S RESISTOR 7030003240 [FR3000] R187 7030003320 S.RESISTOR ERJ3GEYJ 101 V (100 Ω) Т R189 7030003490 S.RESISTOR ERJ3GEYJ 272 V (2.7 kΩ) R190 7030003500 S.RESISTOR ERJ3GEYJ 332 V (3.3 kΩ) В ERJ3GEYJ 274 V (270 kΩ) 7030003730 S RESISTOR В R191 7030003520 S.RESISTOR ERJ3GEYJ 472 V (4.7 kΩ) В R192 ERJ3GEYJ 473 V (47 kΩ) В R193 7030003640 S.RESISTOR R194 7030003560 S RESISTOR ERJ3GEYJ 103 V (10 kΩ) В R195 7030003480 S.RESISTOR ERJ3GEYJ 222 V (2.2 kΩ) В S.RESISTOR R196 7030000290 MCR10EZHJ 180 Ω (181) [FR3100] Т R197 7030000190 S.RESISTOR MCR10EZHJ 27 Ω (270) [FR3100] Т C1608 JB 1H 102K-T 4030006860 S.CERAMIC C1 C2 C3 C4 4030007060 S.CERAMIC C1608 CH 1H 270J-T S.CERAMIC S.CERAMIC 4030006860 C1608 JB 1H 102K-T C1608 CH 1H 270J-T 4030007060 C5 C1608 CH 1H 100D-T T 4030007010 S.CERAMIC S.CERAMIC C6 4030007010 C1608 CH 1H 100D-T C7 C8 C9 4030007030 S.CERAMIC C1608 CH 1H 150J-T T T C1608 CH 1H 150J-T 4030007030 S.CERAMIC 4030007010 S.CERAMIC C1608 CH 1H 100D-T В C10 S.CERAMIC C1608 CH 1H 120J-T В 4030007020 C11 4030007010 S.CERAMIC C1608 CH 1H 100D-T В C12 4030007060 S CERAMIC C1608 CH 1H 270J-T T T S.CERAMIC C13 C14 4030006860 C1608 JB 1H 102K-T S.CERAMIC C1608 CH 1H 150J-T В 4030007030 C15 4030007010 S.CERAMIC C1608 CH 1H 100D-T В C18 4030006860 S.CERAMIC C1608 JB 1H 102K-T Т C19 4030006850 S CERAMIC C1608 JB 1H 471K-T T T C20 C1608 CH 1H 101J-T 4030007130 S.CERAMIC C21 S.CERAMIC C1608 CH 1H 060D-T 4030006970 C22 4030007040 S.CERAMIC C1608 CH 1H 180J-T Т C23 C24 T 4030007050 S.CERAMIC C1608 CH 1H 220.I-T S.CERAMIC C1608 CH 1H 120J-T 4030007020 C30 4030007030 S.CERAMIC C1608 CH 1H 150J-T Т C31 4030006860 S.CERAMIC C1608 JB 1H 102K-T C32 4030006860 S.CERAMIC C1608 JB 1H 102K-T T T S.CERAMIC C1608 JB 1H 102K-T C33 4030006860 C34 Ť 4030006860 S.CERAMIC C1608 JB 1H 102K-T C35 C39 Т 4030006860 S.CERAMIC C1608 JB 1H 102K-T 4030006860 S.CERAMIC C1608 JB 1H 102K-T Т T T C40 4030006860 S CERAMIC C1608 JB 1H 102K-T C41 4030006860 S.CERAMIC C1608 JB 1H 102K-T В C42 4030006860 S.CERAMIC C1608 JB 1H 102K-T C43 4030006860 S.CERAMIC C1608 JB 1H 102K-T В C44 4030006900 S.CERAMIC C1608 JB 1H 103K-T B T T C46 4030007050 S CERAMIC C1608 CH 1H 220,I-T C47 S.CERAMIC C1608 CH 1H 050C-T 4030006960 C48 4030006860 S.CERAMIC C1608 JB 1H 102K-T Т

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REF NO.	ORDER NO.		DESCRIPTION	М.
C51	4030006860	S.CERAMIC	C1608 JB 1H 102K-T	Т
C52	4030006860	S.CERAMIC	C1608 JB 1H 102K-T	T
C53	4510004630	S.ELECTROLYTIC	ECEV1CA100SR	T
C55 C56	4030007050	S.CERAMIC S.CERAMIC	C1608 CH 1H 220J-T C1608 JB 1H 102K-T	T
C57	4510004640	S.ELECTROLYTIC	ECEV1CA470SP	'
C58	4030006860	S.CERAMIC	C1608 JB 1H 102K-T	T
C59	4030006860	S.CERAMIC	C1608 JB 1H 102K-T	T
C60	4510004640	S.ELECTROLYTIC	ECEV1CA470SP	T
C62 C64	4030007120 4030006860	S.CERAMIC S.CERAMIC	C1608 CH 1H 820J-T C1608 JB 1H 102K-T	T B
C65	4030006860	S.CERAMIC	C1608 JB 1H 102K-T	T
C67	4510004630	S.ELECTROLYTIC	ECEV1CA100SR	T
C68	4550000460	S.TANTALUM	TEESVA 1C 105M8L	B
C69 C70	4030006860	S.CERAMIC S.CERAMIC	C1608 JB 1H 102K-T C1608 JB 1E 104K-T	B B
C71	403007160	S.CERAMIC	C1608 CH 1H 181J-T	T
C72	4030007160	S.CERAMIC	C1608 CH 1H 181J-T	Ť
C73	4030011600	S.CERAMIC	C1608 JB 1E 104K-T	В
C74	4030011600	S.CERAMIC	C1608 JB 1E 104K-T	B
C75 C76	4030011600	S.CERAMIC S.CERAMIC	C1608 JB 1E 104K-T C1608 JB 1E 104K-T	B B
C77	4030011600	S.CERAMIC	C1608 JB 1E 104K-T	B
C78	4030011600	S.CERAMIC	C1608 JB 1E 104K-T	В
C79	4030007010	S.CERAMIC	C1608 CH 1H 100D-T	Т
C80	4030007010	S.CERAMIC	C1608 CH 1H 100D-T	T
C81 C82	4030007010 4030006860	S.CERAMIC S.CERAMIC	C1608 CH 1H 100D-T C1608 JB 1H 102K-T	T
C83	4510004630	S.ELECTROLYTIC	ECEV1CA100SR	†
C84	4030007130	S.CERAMIC	C1608 CH 1H 101J-T	В
C85	4030006860	S.CERAMIC	C1608 JB 1H 102K-T	T
C86	4030006860	S.CERAMIC	C1608 JB 1H 102K-T	T
C87 C102	4510004630 4510004640	S.ELECTROLYTIC S.ELECTROLYTIC	ECEV1CA100SR ECEV1CA470SP	+
C103	4030006860	S.CERAMIC	C1608 JB 1H 102K-T	†
C104	4030007130	S.CERAMIC	C1608 CH 1H 101J-T	В
C105	4030006860	S.CERAMIC	C1608 JB 1H 102K-T	В
C106 C108	4030006860	S.CERAMIC S.CERAMIC	C1608 JB 1H 102K-T C1608 JB 1H 102K-T	B B
C108	4030006860	S.CERAMIC	C1608 JB 1H 102K-T	B
C110	4030006860	S.CERAMIC	C1608 JB 1H 102K-T	В
C112	4030007080	S.CERAMIC	C1608 CH 1H 390J-T	В
C113	4030007080	S.CERAMIC	C1608 CH 1H 390J-T	B
C114 C115	4030007050 4030006860	S.CERAMIC S.CERAMIC	C1608 CH 1H 220J-T C1608 JB 1H 102K-T	B B
C116	4030006860	S.CERAMIC	C1608 JB 1H 102K-1	T
C117	4030006860	S.CERAMIC	C1608 JB 1H 102K-T	T
C118	4030006860	S.CERAMIC	C1608 JB 1H 102K-T	В
C120	4030006860	S.CERAMIC	C1608 JB 1H 102K-T	B
C121 C122	4030006860	S.CERAMIC S.CERAMIC	C1608 JB 1H 102K-T C1608 JB 1H 102K-T	B B
C124	4030007070	S.CERAMIC	C1608 CH 1H 330J-T	B
C126	4030006860	S.CERAMIC	C1608 JB 1H 102K-T	В
C131	4030006900	S.CERAMIC	C1608 JB 1H 103K-T	В
C132	4030007030	S.CERAMIC	C1608 CH 1H 150J-T C1608 JB 1H 102K-T	B
C133 C134	4030006860 4030007130	S.CERAMIC S.CERAMIC	C1608 JB 1H 102K-1 C1608 CH 1H 101J-T	B B
C134	4030007130	S.CERAMIC	C1608 JB 1H 1013-1	B
C138	4030006860	S.CERAMIC	C1608 JB 1H 102K-T	В
C140	4510004640	S.ELECTROLYTIC		T
C141 C142	4030006860 4030006860	S.CERAMIC S.CERAMIC	C1608 JB 1H 102K-T C1608 JB 1H 102K-T	T B
C142	4030006860	S.CERAMIC	C1608 JB 1H 102K-1 C1608 JB 1H 102K-T	T
C146	4510004630	S.ELECTROLYTIC	ECEV1CA100SR	T
C151	4030007080	S.CERAMIC	C1608 CH 1H 390J-T	В
C152	4030006900	S.CERAMIC	C1608 JB 1H 103K-T	T
C159 C165	4030006860 4550000550	S.CERAMIC S.TANTALUM	C1608 JB 1H 102K-T TEESVA 1V 224M8L	T B
C165	4550002980	S.TANTALUM S.TANTALUM	TEESVA 1V 224M8L TEESVA 1C 225M8L	B
C173	4030017490	S.CERAMIC	C1608 JB 1A 105K-T	T
C174	4550000270	S.TANTALUM	TEESVA 1E 474M8L	T
C175	4550006350	S.TANTALUM	TEESVB2 1A 226M8L	B
C177 C180	4030011600 4030006900	S.CERAMIC S.CERAMIC	C1608 JB 1E 104K-T C1608 JB 1H 103K-T	T
C180	40300011600	S.CERAMIC	C1608 JB 1E 104K-T	+
C182	4030007100	S.CERAMIC	C1608 CH 1H 560J-T	Т
C183	4030007130	S.CERAMIC	C1608 CH 1H 101J-T	T
C184	4030007050	S.CERAMIC	C1608 CH 1H 220J-T	B
C186 C187	4030007130 4030007130	S.CERAMIC S.CERAMIC	C1608 CH 1H 101J-T C1608 CH 1H 101J-T	B B
C187	4030007130	S.CERAMIC	C1608 CH 1H 1013-1 C1608 CH 1H 101J-T	B
C193	4030011600	S.CERAMIC	C1608 JB 1E 104K-T	Т
C194	4030006860	S.CERAMIC	C1608 JB 1H 102K-T	T
C195	4030006860	S.CERAMIC	C1608 JB 1H 102K-T	В
C196 C198	4550000530 4030008880	S.TANTALUM S.CERAMIC	TEESVA 1V 104M8L C1608 JB 1H 223K-T	B B
C198	4030006860	S.CERAMIC	C1608 JB 1H 223K-1	T
C200	4030006860	S.CERAMIC	C1608 JB 1H 102K-T	T
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[FR3000]: IC-FR3000, [FR3100]: IC-FR3100

4510004630

S.ELECTROLYTIC ECEV1CA100SR

M.=Mounted side (T: Mounted on the Top side, B: Mounted on the Bottom side)

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[RVCO UNIT]

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NO.	NO.		DESCRIPTION	М.		NO.	NO.		DESCRIPTION	М.
C201 C202 C203	4550006250 4030006860 4030011600	S.TANTALUM S.CERAMIC S.CERAMIC	TEESVA 1A 106M8L C1608 JB 1H 102K-T C1608 JB 1E 104K-T	B T T		Q1 Q2	1560000490 1530002920	S.FET S.TRANSISTOR	2SK508 K52 T2B 2SC4226-T1 R25	T
C204 C205	4550006250 4030006940	S.TANTALUM S.CERAMIC	TEESVA 1A 106M8L C1608 CH 1H 030C-T	B T		D1	1720000700	S.VARICAP	1SV305 (TPL3)	Т
C206 C207	4030006940 4030007050	S.CERAMIC S.CERAMIC	C1608 CH 1H 030C-T C1608 CH 1H 220J-T	T		D2 D3	1720000700 1720000700	S.VARICAP S.VARICAP	1SV305 (TPL3) 1SV305 (TPL3)	T
C208	4030007040	S.CERAMIC	C1608 CH 1H 180J-T	Т		D4	1720000700	S.VARICAP	1SV305 (TPL3)	Ť
C210 C211	4030006850 4030007130	S.CERAMIC S.CERAMIC	C1608 JB 1H 471K-T C1608 CH 1H 101J-T	T						
C212 C213	4030007170 4030007130	S.CERAMIC S.CERAMIC	C1608 CH 1H 221J-T C1608 CH 1H 101J-T	T B		L1 L2	6200007120 6200007120	S.COIL S.COIL	ELJND 1R0J 1U ELJND 1R0J 1U	T
C214	4030006980	S.CERAMIC	C1608 CH 1H 070D-T	Т		L3	6200010600	S.COIL	C6342A-67NG-A	Т
C215 C216	4030006900 4030007010	S.CERAMIC S.CERAMIC	C1608 JB 1H 103K-T C1608 CH 1H 100D-T	T B		L4 L6	6200007120 6200009350	S.COIL S.COIL	ELJND 1R0J 1U ELJRE R22G-F3	T
C217 C218	4030007010 4030007020	S.CERAMIC S.CERAMIC	C1608 CH 1H 100D-T C1608 CH 1H 120J-T	B T						
C219	4030006950	S.CERAMIC	C1608 CH 1H 040C-T	Т		R1	7030003280	S.RESISTOR	ERJ3GEYJ 470 V (47 Ω)	Ţ
C220 C221	4030007060 4030007060	S.CERAMIC S.CERAMIC	C1608 CH 1H 270J-T C1608 CH 1H 270J-T	T T		R2 R3	7030003200 7030003400	S.RESISTOR S.RESISTOR	ERJ3GEYJ 100 V (10 Ω) ERJ3GEYJ 471 V (470 Ω)	T
C223 C224	4030007030 4030007030	S.CERAMIC S.CERAMIC	C1608 CH 1H 150J-T C1608 CH 1H 150J-T	T B		R4 R6	7030003560 7030003500	S.RESISTOR S.RESISTOR	ERJ3GEYJ 103 V (10 kΩ) ERJ3GEYJ 332 V (3.3 kΩ)	T
C225	4030006850	S.CERAMIC	C1608 JB 1H 471K-T	В		R7	7030003370	S.RESISTOR	ERJ3GEYJ 271 V (270 Ω)	T
C226	4550003210	S.TANTALUM	TEESVD21D226M12R	В		R13	7030003440	S.RESISTOR	ERJ3GEYJ 102 V (1 kΩ)	Т
J1 J2	6510013360 6510022590	CONNECTOR S.CONNECTOR	FL-R-PC (2) 22FMN-BMTTR-A-TBT	T		C1 C2	4030006860 4030007130	S.CERAMIC S.CERAMIC	C1608 JB 1H 102K-T C1608 CH 1H 101J-T	T
J5	6510013360	CONNECTOR	FL-R-PC (2)	Ť		C3	4550006470	S.TANTALUM	TEESVB2 1D 106M8L	T
						C5 C6	4030006860 4030009510	S.CERAMIC S.CERAMIC	C1608 JB 1H 102K-T C1608 CH 1H 010B-T	T
W1 W2	7030003860 7030003860	S.RESISTOR S.RESISTOR	ERJ3GE JPW V ERJ3GE JPW V	T		C7 C8	4030007130 4030006980	S.CERAMIC S.CERAMIC	C1608 CH 1H 101J-T C1608 CH 1H 070D-T	T
W3	7030003860	S.RESISTOR	ERJ3GE JPW V	Т		C9	4030007010	S.CERAMIC	C1608 CH 1H 100D-T	T
W4 W6	7030003860 7030003860	S.RESISTOR S.RESISTOR	ERJ3GE JPW V ERJ3GE JPW V	T B		C11 C16	4030007010 4030006860	S.CERAMIC S.CERAMIC	C1608 CH 1H 100D-T C1608 JB 1H 102K-T	T T
W7 W8	7030003860 7030003860	S.RESISTOR S.RESISTOR	ERJ3GE JPW V ERJ3GE JPW V	T		C17 C27	4610001920 4030006900	S.TRIMMER S.CERAMIC	TZC3Z060A110R00 C1608 JB 1H 103K-T	T
W9	7030008240	S.RESISTOR	ERJ12YJ0R00U	Т		C30	4030006860	S.CERAMIC	C1608 JB 1H 102K-T	T
W12 W13	7030003860 7030003860	S.RESISTOR S.RESISTOR	ERJ3GE JPW V ERJ3GE JPW V	T		C32	4030006900	S.CERAMIC	C1608 JB 1H 103K-T	Т
W14 W15	7030008240 7030003860	S.RESISTOR S.RESISTOR	ERJ12YJ0R00U ERJ3GE JPW V	T		J1	6510022900	CONNECTOR	IMSA9201B-1-06Z198-T	Т
W18 W19	7030003860 7030000010	S.RESISTOR S.RESISTOR	ERJ3GE JPW V MCR10EZHJ JPW (000) [FR3000]	В			0010022000	001111201011	1110/102015 1 002100 1	'
	7.00000010	020.0				EP1	0910056313	РСВ	B 5927C	
EP1	0910056303	PCB	B 5926C							

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TX U	NIIJ				[TX U	NIT]			
REF NO.	ORDER NO.		DESCRIPTION	М.	REF NO.	ORDER NO.		DESCRIPTION	М.
IC1	1180000420	S.IC	TA78L05F (TE12R)	В	R43	7030003530	S.RESISTOR	ERJ3GEYJ 562 V (5.6 kΩ)	В
IC2	1140002131	S.IC	MB1511PFV-G-BND-ER	В	R45	7030003520	S.RESISTOR	ERJ3GEYJ 472 V (4.7 kΩ)	T
IC3	1110002400	S.IC	NJM2107F-TE1	В	R50	7030003480	S.RESISTOR	ERJ3GEYJ 222 V (2.2 kΩ)	В
IC4 IC5	1180000430 1190001350	S.IC S.IC	TA78L06F (TE12L) M62364FP 600D	B B	R51 R52	7030003600 7030003500	S.RESISTOR S.RESISTOR	ERJ3GEYJ 223 V (22 kΩ) ERJ3GEYJ 332 V (3.3 kΩ)	B
IC6	1110002400	S.IC	NJM2107F-TE1	-	R53	7030003300	S.RESISTOR	ERJ3GEYJ 101 V (100 Ω)	B
					R54	7030003440	S.RESISTOR	ERJ3GEYJ 102 V (1 kΩ)	В
. .				l _l	R56	7030003280	S.RESISTOR	ERJ3GEYJ 470 V (47 Ω)	В
Q1 Q3	1530002380 1530003260	S.TRANSISTOR S.TRANSISTOR	2SC4215-Y (TE85R) 2SC5006-T1	T B	R57 R61	7030003340 7030003200	S.RESISTOR S.RESISTOR	ERJ3GEYJ 151 V (150 Ω)	T B
Q5	1530003260	S.TRANSISTOR	2SC2712-GR (TE85R)	T	R64	7030003200	S.RESISTOR	ERJ3GEYJ 100 V (10 Ω) ERJ3GEYJ 473 V (47 kΩ)	B
Q6	1530002050	S.TRANSISTOR	2SC3661-TB	В	R66	7030003640	S.RESISTOR	ERJ3GEYJ 473 V (47 kΩ)	B
Q7	1510000510	S.TRANSISTOR	2SA1576A T106R	В	R67	7030003720	S.RESISTOR	ERJ3GEYJ 224 V (220 kΩ)	В
Q9	1530001950	S.TRANSISTOR	2SC2712-GR (TE85R)	B T	R68	7030003560	S.RESISTOR	ERJ3GEYJ 103 V (10 kΩ)	T
Q10 Q11	1560000540 1510000510	S.FET S.TRANSISTOR	2SK880-Y (TE85R) 2SA1576A T106R	B	R69 R70	7030003320 7030003800	S.RESISTOR S.RESISTOR	ERJ3GEYJ 101 V (100 Ω) ERJ3GEYJ 105 V (1 ΜΩ)	B
Q12	1530002060	S.TRANSISTOR	2SC4081 T106 R	В	R71	7030003200	S.RESISTOR	ERJ3GEYJ 100 V (10 Ω)	T
					R76	7030003520	S.RESISTOR	ERJ3GEYJ 472 V (4.7 kΩ)	T
D1	1790001620	S.DIODE	1SV308 (TPL3)	Т	R77 R78	7030003640 7030003660	S.RESISTOR S.RESISTOR	ERJ3GEYJ 473 V (47 kΩ) ERJ3GEYJ 683 V (68 kΩ)	T
D3	1790001620	S.DIODE S.DIODE	1SV308 (TPL3)	+	R79	7030003660	S.RESISTOR	ERJ3GEYJ 473 V (47 kΩ)	'
D4	1790001250	S.DIODE	MA2S111-(TX)	В	R80	7030003200	S.RESISTOR	ERJ3GEYJ 100 V (10 Ω)	Ť
					R81	7030003640	S.RESISTOR	ERJ3GEYJ 473 V (47 kΩ)	T
V4	0050011000	CVTAL	OD 750 (10.0 MH=)	_	R83	7030003280	S.RESISTOR	ERJ3GEYJ 470 V (47 Ω)	B
X1	6050011690	S.XTAL	CR-759 (12.8 MHz)	Т	R84 R85	7030003540 7030003680	S.RESISTOR S.RESISTOR	ERJ3GEYJ 682 V (6.8 kΩ) ERJ3GEYJ 104 V (100 kΩ)	T
					R86	7030003000	S.RESISTOR	ERJ3GEYJ 472 V (4.7 kΩ)	T
L2	6200007770	S.COIL	LQW2BHNR10J01L	T	R87	7030003480	S.RESISTOR	ERJ3GEYJ 222 V (2.2 kΩ)	T
L8	6200004920	S.COIL	MLF1608A 2R2K-T	Ţ	R88	7030003560	S.RESISTOR	ERJ3GEYJ 103 V (10 kΩ)	Ţ
L9 L10	6200004920 6200010210	S.COIL S.COIL	MLF1608A 2R2K-T C2012C-22NG	T B	R90 R91	7030003200 7030003440	S.RESISTOR S.RESISTOR	ERJ3GEYJ 100 V (10 Ω) ERJ3GEYJ 102 V (1 kΩ)	B
L11	6200004920	S.COIL	MLF1608A 2R2K-T	В	R92	7030004040	S.RESISTOR	ERJ3GEYJ 4R7 V (4.7 Ω)	В
L14	6200003850	S.COIL	36CS-656LZ-09K=P3	T	R93	7030003720	S.RESISTOR	ERJ3GEYJ 224 V (220 kΩ)	T
L17	6910011690	S.COIL	ACB1608M-600-T	В	R94	7030003680	S.RESISTOR	ERJ3GEYJ 104 V (100 kΩ)	Ţ
L18 L19	6910011690 6910011690	S.COIL S.COIL	ACB1608M-600-T ACB1608M-600-T	B B	R95 R96	7030003320 7030003450	S.RESISTOR S.RESISTOR	ERJ3GEYJ 101 V (100 Ω) ERJ3GEYJ 122 V (1.2 kΩ)	B
L20	6910011690	S.COIL	ACB1608M-600-T	В	R97	7030003420	S.RESISTOR	ERJ3GEYJ 681 V (680 Ω)	Ť
L21	6910011690	S.COIL	ACB1608M-600-T	В	R98	7030001010	S.RESISTOR	MCR50JZHJ 10 Ω (100)	В
L22	6910011690	S.COIL	ACB1608M-600-T	В					
L23 L24	6910011690 6910011690	S.COIL S.COIL	ACB1608M-600-T ACB1608M-600-T	B B	C1	4030006860	S.CERAMIC	C1608 JB 1H 102K-T	В
L25	6910011690	S.COIL	ACB1608M-600-T	В	C2	4030006860	S.CERAMIC	C1608 JB 1H 102K-T	В
L26	6910011690	S.COIL	ACB1608M-600-T	В	C4	4030006860	S.CERAMIC	C1608 JB 1H 102K-T	T
L27	6200009940	S.COIL	BLM21PG221SN1	B T	C9	4030007010	S.CERAMIC	C1608 CH 1H 100D-T	T
L28 L29	6200009940 6910011690	S.COIL S.COIL	BLM21PG221SN1 ACB1608M-600-T	+	C10 C15	4030006990 4030006860	S.CERAMIC S.CERAMIC	C1608 CH 1H 080D-T C1608 JB 1H 102K-T	+
L30	6910011690	S.COIL	ACB1608M-600-T	В	C16	4030006860	S.CERAMIC	C1608 JB 1H 102K-T	Ť
L31	6200007740	S.COIL	LQW2BHN47NJ01L	В	C17	4030006860	S.CERAMIC	C1608 JB 1H 102K-T	Т Т
					C18 C19	4030006860	S.CERAMIC	C1608 JB 1H 102K-T C1608 CH 1H 100D-T	B
R1	7030003230	S.RESISTOR	ERJ3GEYJ 180 V (18 Ω)	В	C20	4030007010 4030007010	S.CERAMIC S.CERAMIC	C1608 CH 1H 100D-1	B
R2	7030003230	S.RESISTOR	ERJ3GEYJ 180 V (18 Ω)	В	C21	4030006860	S.CERAMIC	C1608 JB 1H 102K-T	В
R3	7030003230		ERJ3GEYJ 180 V (18 Ω)	В	C22	4030007040	S.CERAMIC	C1608 CH 1H 180J-T	В
R4 R5	7030003560 7030003510	S.RESISTOR S.RESISTOR	ERJ3GEYJ 103 V (10 kΩ) ERJ3GEYJ 392 V (3.9 kΩ)	T	C24 C26	4030006860 4030006860	S.CERAMIC S.CERAMIC	C1608 JB 1H 102K-T C1608 JB 1H 102K-T	B
R6	7030003310	S.RESISTOR	ERJ3GEYJ 101 V (100 Ω)	+	C27	4030006860	S.CERAMIC	C1608 JB 1H 102K-1	B
R9	7030003230	S.RESISTOR	ERJ3GEYJ 180 V (18 Ω)	T	C28	4510004640	S.ELECTROLYTIC		T
R10	7030003370	S.RESISTOR	ERJ3GEYJ 271 V (270 Ω)	T	C29	4030006860	S.CERAMIC	C1608 JB 1H 102K-T	I
R11 R12	7030003370 7030003570	S.RESISTOR S.RESISTOR	ERJ3GEYJ 271 V (270 Ω) ERJ3GEYJ 123 V (12 kΩ)	T B	C32 C33	4030006860 4510004640	S.CERAMIC S.ELECTROLYTIC	C1608 JB 1H 102K-T	T
R13	7030003570	S.RESISTOR	ERJ3GEYJ 103 V (10 kΩ)	В	C34	4030006860	S.CERAMIC	C1608 JB 1H 102K-T	Ϊ́
R14	7030003550	S.RESISTOR	ERJ3GEYJ 822 V (8.2 kΩ)	В	C35	4550000510	S.TANTALUM	TEESVA 1V 473M8L	В
R15	7030003570	S.RESISTOR	ERJ3GEYJ 123 V (12 kΩ)	В	C36	4550006390	S.TANTALUM	TEESVA 1C 335M8L	В
R16 R17	7030003440 7030003450	S.RESISTOR S.RESISTOR	ERJ3GEYJ 102 V (1 kΩ) ERJ3GEYJ 122 V (1.2 kΩ)	T	C37 C38	4030006860 4030006860	S.CERAMIC S.CERAMIC	C1608 JB 1H 102K-T C1608 JB 1H 102K-T	T
R18	7030003560	S.RESISTOR	ERJ3GEYJ 103 V (10 kΩ)	+	C39	4030006860	S.CERAMIC	C1608 JB 1H 102K-T	ΙĖ
R19	7030003520	S.RESISTOR	ERJ3GEYJ 472 V (4.7 kΩ)	Т	C40	4030006860	S.CERAMIC	C1608 JB 1H 102K-T	т
R20	7030003440	S.RESISTOR	ERJ3GEYJ 102 V (1 kΩ)	T	C41	4030006860	S.CERAMIC	C1608 JB 1H 102K-T	Ţ
R21 R22	7030003200 7030003200	S.RESISTOR S.RESISTOR	ERJ3GEYJ 100 V (10 Ω) ERJ3GEYJ 100 V (10 Ω)	B B	C42 C43	4030006860 4030006860	S.CERAMIC S.CERAMIC	C1608 JB 1H 102K-T C1608 JB 1H 102K-T	T
R23	7030003200	S.RESISTOR	ERJ3GEYJ 100 V (10 Ω)	T	C44	4510004630	S.ELECTROLYTIC		Ϊ́
R24	7030003200	S.RESISTOR	ERJ3GEYJ 100 V (10 Ω)	T	C45	4030007010	S.CERAMIC	C1608 CH 1H 100D-T	T
R25	7030003200	S.RESISTOR	ERJ3GEYJ 100 V (10 Ω)	T	C46	4030007010	S.CERAMIC	C1608 CH 1H 100D-T	Ţ
R26 R27	7030003200 7030003200	S.RESISTOR S.RESISTOR	ERJ3GEYJ 100 V (10 Ω) ERJ3GEYJ 100 V (10 Ω)	T	C47 C48	4030007010 4030006860	S.CERAMIC S.CERAMIC	C1608 CH 1H 100D-T C1608 JB 1H 102K-T	T
R29	7030003200	S.RESISTOR	ERJ3GEYJ 100 V (10 Ω)	†	C49	4030006860	S.CERAMIC	C1608 JB 1H 102K-T	Ϊ́
R31	7030003520	S.RESISTOR	ERJ3GEYJ 472 V (4.7 kΩ)	В	C50	4510004630	S.ELECTROLYTIC	ECEV1CA100SR	T
R32	7030003510	S.RESISTOR	ERJ3GEYJ 392 V (3.9 kΩ)	В	C51	4550006250	S.TANTALUM	TEESVA 1A 106M8L	Ţ
R33 R34	7030003410 7030003560	S.RESISTOR S.RESISTOR	ERJ3GEYJ 561 V (560 Ω) ERJ3GEYJ 103 V (10 kΩ)	B T	C52 C53	4030006860 4030011600	S.CERAMIC S.CERAMIC	C1608 JB 1H 102K-T C1608 JB 1E 104K-T	T B
R35	7030003560	S.RESISTOR	ERJ3GEYJ 562 V (5.6 kΩ)	+	C53	4030011600	S.CERAMIC S.CERAMIC	C1608 JB 1H 102K-T	B
	7030003530	S.RESISTOR	ERJ3GEYJ 562 V (5.6 kΩ)	В	C58	4030011600	S.CERAMIC	C1608 JB 1E 104K-T	В
R36	7030003480	S.RESISTOR	ERJ3GEYJ 222 V (2.2 kΩ)	В	C60	4550003210	S.TANTALUM	TEESVD21D226M12R	В
R37				В	C61	4030006860	S.CERAMIC	C1608 JB 1H 102K-T	1 D
R37 R38	7030003680	S.RESISTOR	ERJ3GEYJ 104 V (100 kΩ)				C CEDAMIC		B
R37 R38 R39	7030003680 7030003620	S.RESISTOR	ERJ3GEYJ 333 V (33 kΩ)	В	C68	4030006860	S.CERAMIC S.CERAMIC	C1608 JB 1H 102K-T	T
R37 R38	7030003680						S.CERAMIC S.CERAMIC S.CERAMIC		

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NO.	ORDER NO.		DESCRIPTION	М.	REF NO.	ORDER NO.		DESCRIPTION	М.
C75	4030006860 4030006860 4030006860	S.CERAMIC S.CERAMIC S.CERAMIC	C1608 JB 1H 102K-T C1608 JB 1H 102K-T C1608 JB 1H 102K-T	T T B	Q1 Q2	1560000490 1530003260	S.FET S.TRANSISTOR	2SK508 K52 T2B 2SC5006-T1	T
C78 C79	4030006860 4030006860 4030007170 4030011600	S.CERAMIC S.CERAMIC S.CERAMIC S.CERAMIC	C1608 JB 1H 102K-T C1608 JB 1H 102K-T C1608 CH 1H 221J-T C1608 JB 1E 104K-T	T B B	D1 D2 D3	1720000700 1720000700 1720000700	S.VARICAP S.VARICAP S.VARICAP	1SV305 (TPL3) 1SV305 (TPL3) 1SV305 (TPL3)	T T T
C82 C85 C92	4550006250 4030011600 4030006860	S.TANTALUM S.CERAMIC S.CERAMIC	TEESVA 1A 106M8L C1608 JB 1E 104K-T C1608 JB 1H 102K-T	T B T	D4 D5	172000700 1720000700 1720000700	S.VARICAP S.VARICAP	1SV305 (TPL3) 1SV305 (TPL3)	T T
C96 C97	4030006860 4510004630 4510004630 4510004640	S.CERAMIC S.ELECTROLYTIC S.ELECTROLYTIC S.ELECTROLYTIC	ECEV1CA100SR	T T T	L1 L2 L3	6200004920 6200007120 6200010620	S.COIL S.COIL S.COIL	MLF1608A 2R2K-T ELJND 1R0J 1U C6328A-35NG-A	T T T
C100 C102	4550000460 4510004630 4030007050 4030006900	S.TANTALUM S.ELECTROLYTIC S.CERAMIC S.CERAMIC	TEESVA 1C 105M8L ECEV1CA100SR C1608 CH 1H 220J-T C1608 JB 1H 103K-T	T T B B	L4 L5 L6 L7	6200007120 6200004920 6200007120 6200007120	S.COIL S.COIL S.COIL S.COIL	ELJND 1R0J 1U MLF1608A 2R2K-T ELJND 1R0J 1U ELJND 1R0J 1U	T T T
C104 C105 C106	4030011600 4510004630 4030006900	S.CERAMIC S.ELECTROLYTIC S.CERAMIC	C1608 JB 1E 104K-T ECEV1CA100SR C1608 JB 1H 103K-T	B T B	R2	7030003200	S.RESISTOR	ERJ3GEYJ 100 V (10 Ω)	Т
C108 C109	4030007130 4030006860 4550006250 4030007130	S.CERAMIC S.CERAMIC S.TANTALUM S.CERAMIC	C1608 CH 1H 101J-T C1608 JB 1H 102K-T TEESVA 1A 106M8L C1608 CH 1H 101J-T	T B T T	R4 R5 R6 R7	7030003560 7030003360 7030003500 7030003390	S.RESISTOR S.RESISTOR S.RESISTOR S.RESISTOR	ERJ3GEYJ 103 V (10 kΩ) ERJ3GEYJ 221 V (220 Ω) ERJ3GEYJ 332 V (3.3 kΩ) ERJ3GEYJ 391 V (390 Ω)	T T T
C112 C113 C114 C115	4030011600 4030007130 4550006250 4030006860 4510004630	S.CERAMIC S.CERAMIC S.TANTALUM S.CERAMIC S.ELECTROLYTIC		T B B T	R12 R13 R14 R15	7030003560 7030003410 7030003560 7030003610	S.RESISTOR S.RESISTOR S.RESISTOR S.RESISTOR	ERJ3GEYJ 103 V (10 kΩ) ERJ3GEYJ 561 V (560 Ω) ERJ3GEYJ 103 V (10 kΩ) ERJ3GEYJ 273 V (27 kΩ)	T T T
C117 C118 C119 C120	4030006860 4030007130 4030007130 4550000460 4030006860 4030007010	S.CERAMIC S.CERAMIC S.CERAMIC S.TANTALUM S.CERAMIC	C1608 JB 1H 102K-T C1608 CH 1H 101J-T C1608 CH 1H 101J-T TEESVA 1C 105M8L C1608 JB 1H 102K-T	B B T B T	C1 C3 C4 C5	4030006860 4550006080 4030006860 4030006860	S.CERAMIC S.TANTALUM S.CERAMIC S.CERAMIC S.CERAMIC	C1608 JB 1H 102K-T TEESVB2 1C 106M8L C1608 JB 1H 102K-T C1608 JB 1H 102K-T	T T T T
C122 C123 C124 C125	4550006250 4550006250 4030006860 4030011600	S.CERAMIC S.TANTALUM S.TANTALUM S.CERAMIC S.CERAMIC	C1608 CH 1H 100D-T TEESVA 1A 106M8L TEESVA 1A 106M8L C1608 JB 1H 102K-T C1608 JB 1E 104K-T	T B B	C6 C7 C8 C9 C10	4030008160 4030007080 4030006980 4030007010 4030006930	S.CERAMIC S.CERAMIC S.CERAMIC S.CERAMIC	C1608 UJ 1H 010C-T C1608 CH 1H 390J-T C1608 CH 1H 070D-T C1608 CH 1H 100D-T C1608 CH 1H 020C-T	T T T
J3	4030007100 6510022590 6510022800	S.CONNECTOR S.CONNECTOR	C1608 CH 1H 560J-T 22FMN-BMTTR-A-TBT B10B-PH-SM3-TB	T T T	C11 C12 C13 C16 C17 C18	4030007020 4030006860 4030006860 4030006860 4610001590 4030006860	S.CERAMIC S.CERAMIC S.CERAMIC S.CERAMIC S.TRIMMER S.CERAMIC	C1608 CH 1H 120J-T C1608 JB 1H 102K-T C1608 JB 1H 102K-T C1608 JB 1H 102K-T TZC3R100A110R00 C1608 JB 1H 102K-T	T T T T
W4	7030003860 7030003860 7030003860	S.RESISTOR S.RESISTOR S.RESISTOR	ERJ3GE JPW V ERJ3GE JPW V ERJ3GE JPW V	T T B	C24 C25	4030006990 4030006860	S.CERAMIC S.CERAMIC	C1608 CH 1H 080D-T C1608 JB 1H 102K-T	T
	7030003860 7030003860	S.RESISTOR S.RESISTOR	ERJ3GE JPW V ERJ3GE JPW V	B T	J1 J2 J3 J4	6910008020 6910008020 6910008020 6910008020	CONNECTOR CONNECTOR CONNECTOR CONNECTOR	IPS-1323 IPS-1323 IPS-1323 IPS-1323	T T T
	8970024070 0910056323	PCB	FX2368 1.5D COAXIAL TUBE (1)/TX B 5928C	Т	J5 J6	6910008020 6910008020	CONNECTOR CONNECTOR	IPS-1323 IPS-1323	T
	0910030323	ГОВ	B 3920C		W1	7030003860	S.RESISTOR	ERJ3GE JPW V	Т
					EP1	0910056333	PCB	B 5929C	

[FR3000]: IC-FR3000, [FR3100]: IC-FR3100

[PA UNIT]

REF ORDER **DESCRIPTION** M. NO. NO. 1110002750 S.IC TA75S01F (TE85R) IC2 1150002110 S-AV33 (I) [FR3100] 1150002160 IC S-AV32 (I2) [FR3000] Т S.IC IC3 1110002400 NJM2107F-TE1 Т S.IC T 1180000420 TA78L05F (TE12R) IC7 1560001160 S FFT 2SK3475 (TF12L) Ω 4 Q7 1590000680 S.TRANSISTOR **DTC114EUA T106** Т Q8 1510000590 S.TRANSISTOR 2SA1362-Y (TE85L) S.TRANSISTOR DTC143ZUA T106 1590001320 T S.TRANSISTOR Q10 1590000680 **DTC114EUA T106** 1720000360 S.DIODE HSU88TRF D2 D4 1720000360 S.DIODE HSU88TRF D6 1730002340 S.ZENER MA8047-M (TX) Т D7 MA8047-M (TX) 1730002340 S.ZENER D13 1720000360 S.DIODE Т D14 1720000360 S.DIODE HSU88TRF D15 1790000720 DIODE MA29W-R T T S DIODE D16 1720000360 HSU88TRF L6 6110003810 COIL LA-581 L7 6110003800 COII I A-580 T T 36CS-656LZ-07K=P3 L8 6200003740 S.COIL L10 6110003661 COIL LA-563A L13 6110003661 COIL LA-563A L14 6200003960 S.COIL MLF1608A 1R0K-T Т L15 6200009790 S.COIL BLM31PG121SN1 6910000670 COIL BL01RN1A1D2B (BL01RN1-A62) Т L16 6200009790 S.COIL BLM31PG121SN1 L18 6200009790 S.COIL BLM31PG121SN1 Т Т L19 6200008090 S COIL LQW2BHN68NJ01L 6110003790 COIL LA-579 L20 Т Ť L21 LA-462 6110002780 ERJ3GEYJ 682 V (6.8 kΩ) S RESISTOR т R1 7030003540 7030003800 S.RESISTOR ERJ3GEYJ 105 V (1 MΩ) R2 ERJ3GEYJ 105 V (1 MΩ) R4 7030003800 R5 7030003560 S RESISTOR ERJ3GEYJ 103 V (10 kΩ) Т R6 7030003560 S.RESISTOR ERJ3GEYJ 103 V (10 kΩ) T T R7 7030003560 S.RESISTOR ERJ3GEYJ 103 V (10 kΩ) R8 7030003560 S.RESISTOR ERJ3GEYJ 103 V (10 kΩ) S.RESISTOR ERJ3GEYJ 562 V (5.6 kΩ) 7030003530 R13 7030003600 S.RESISTOR ERJ3GEYJ 223 V (22 kΩ) ÍFR31001 Т 7030003630 S.RESISTOR ERJ3GEYJ 393 V (39 kΩ) [FR3000] R15 7030003630 S.RESISTOR ERJ3GEYJ 393 V (39 kΩ) R16 R19 ERJ3GEYJ 153 V (15 kΩ) ERJ3GEYJ 100 V (10 Ω) 7030003580 S.RESISTOR 7030003200 S.RESISTOR T R20 7030003310 S.RESISTOR ERJ3GEYJ 820 V (82 Ω) S.RESISTOR R21 7030003310 ERJ3GEYJ 820 V (82 Ω) R22 7030000180 S.RESISTOR MCR10EZHJ 22 Ω (220) T Т R23 7030000180 S.RESISTOR MCR10EZHJ 22 Ω (220) R25 7030003440 S.RESISTOR ERJ3GEYJ 102 V (1 kΩ) ERJ3GEYJ 102 V (1 kΩ) Т R26 7030003440 S.RESISTOR R28 7030003520 S.RESISTOR ERJ3GEYJ 472 V (4.7 kΩ) R29 7030000230 S.RESISTOR MCR10EZHJ 56 Ω (560) T R31 7030000270 S.RESISTOR MCR10EZHJ 120 Ω (121) Т R32 7030000270 S.RESISTOR MCR10EZHJ 120 Ω (121) ERJ3GEYJ 330 V (33 Ω) R33 7030003260 S.RESISTOR Т R36 7030003320 S.RESISTOR ERJ3GEYJ 101 V (100 Ω) T **B**37 7030003320 S RESISTOR ERJ3GEYJ 101 V (100 Ω) T T ERJ3GEYJ 122 V (1.2 kΩ) **R38** 7030003450 S.RESISTOR ERJ3GEYJ 100 V (10 Ω) R39 7030003200 S.RESISTOR R40 7030003320 S.RESISTOR ERJ3GEYJ 101 V (100 Ω) T Т R41 7030003510 S.RESISTOR ERJ3GEYJ 392 V (3.9 kΩ) ERJ3GEYJ 103 V (10 kΩ) R42 7030003560 S.RESISTOR Т R43 7030003600 S.RESISTOR ERJ3GEYJ 223 V (22 kΩ) Т R44 7030003680 S.RESISTOR ERJ3GEYJ 104 V (100 kΩ) R45 7030003560 S.RESISTOR ERJ3GEYJ 103 V (10 kΩ) T ERJ3GEYJ 333 V (33 kΩ) Т R47 7030003620 S.RESISTOR 7030003640 ERJ3GEYJ 473 V (47 kΩ) Т R56 S.RESISTOR R57 7030003440 S.RESISTOR ERJ3GEYJ 102 V (1 kΩ) Т R58 7030003460 S.RESISTOR ERJ3GEYJ 152 V (1.5 kΩ) R60 7030003320 S RESISTOR ERJ3GEYJ 101 V (100 Ω) Т ERJ3GEYJ 122 V (1.2 kΩ) R61 7030003450 S.RESISTOR [FR3100] Т R61 7030003460 S.RESISTOR ERJ3GEYJ 152 V (1.5 kΩ) [FR3000] T

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REF. NO. NO. DESCRIPTION M. R63 7030003460 S.RESISTOR ERJ3GEYJ 152 V (1.5 kΩ) [FR3000] T C1 4030018170 S.CERAMIC ERF22X 6C2H 270J D011. T C2 4030018050 S.CERAMIC ERF22X 6C2H 270J D011. T C11 4030006860 S.CERAMIC C1669 JB 1H 102K-T T C12 4030006860 S.CERAMIC C1669 JB 1H 102K-T T C13 4030006860 S.CERAMIC C1669 JB 1H 102K-T T C14 4030006860 S.CERAMIC C1689 JB 1H 102K-T T C15 4030006860 S.CERAMIC C1689 JB 1H 102K-T T C18 4030006860 S.CERAMIC C1689 JB 1H 102K-T T C19 4030006860 S.CERAMIC C1689 JB 1H 102K-T T C24 4030006860 S.CERAMIC C1689 JB 1H 102K-T T C25 4030006860 S.CERAMIC C1689 JB 1H 102K-T T C25 4030006860 S.CERAMIC C1689 JB	[PA UNIT]					
C1				DESCRIPTION	М.	
	R63	7030003460	S.RESISTOR		Т	
C123						
C154						
C15 4030008860 S.CERAMIC C1608 JB 1H 102K-T T T T T T T T T T						
C168						
C189						
C221		4030006860	S.CERAMIC		Т	
C22 4030006860 S.CERAMIC C1608 JB 1H 102K-T T C24 4030006860 S.CERAMIC C1608 JB 1H 102K-T T C25 4030006860 S.CERAMIC C1608 JB 1H 102K-T T C26 4030006860 S.CERAMIC C1608 JB 1H 102K-T T C27 4030006860 S.CERAMIC C1608 JB 1H 102K-T T C30 4030017200 S.CERAMIC C1608 JB 1H 102K-T T C31 403006860 S.CERAMIC C1608 JB 1H 102K-T T C32 4030006860 S.CERAMIC C1608 JB 1H 102K-T T C32 4030006860 S.CERAMIC C1608 JB 1H 102K-T T C37 4030006800 S.CERAMIC C1608 JB 1H 102K-T T C37 4030006900 S.CERAMIC C1608 JB 1H 102K-T T C41 4030006900 S.CERAMIC C1608 JB 1H 103K-T T C41 4030006900 S.CERAMIC C1608 JB 1H 103K-T T C42 4030011600 S.CERAMIC <t< td=""><td></td><td></td><td></td><td></td><td></td></t<>						
C224 4030006860 S.CERAMIC C1608 JB 1H 102K-T T C254 4030006860 S.CERAMIC C1608 JB 1H 102K-T T C27 4030006860 S.CERAMIC C1608 JB 1H 102K-T T C27 4030006860 S.CERAMIC C1608 JB 1H 102K-T T C28 4030006860 S.CERAMIC C1608 JB 1H 102K-T T C30 403007200 S.CERAMIC C1608 JB 1H 102K-T T C31 403006860 S.CERAMIC C1608 JB 1H 102K-T T C32 403006860 S.CERAMIC C1608 JB 1H 102K-T T C34 403006860 S.CERAMIC C1608 JB 1H 102K-T T C34 403006860 S.CERAMIC C1608 JB 1H 103K-T T T C39 403006800 S.CERAMIC C1608 JB 1H 103K-T T T C41 4030006900 S.CERAMIC C1608 JB 1H 103K-T T T C42 4030006900 S.CERAMIC C1608 JB 1H 103K-T T T C						
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C27 4030006860 S.CERAMIC C1608 JB 1H 102K-T T C30 4030017200 S.CERAMIC C1608 JB 1H 102K-T T C31 4030006860 S.CERAMIC C1608 JB 1H 102K-T T C32 4030006860 S.CERAMIC C1608 JB 1H 102K-T T C34 4030006860 S.CERAMIC C1608 JB 1H 102K-T T C34 4030006800 S.CERAMIC C1608 JB 1H 102K-T T C39 403006800 S.CERAMIC C1608 JB 1H 103K-T T T C40 4030006900 S.CERAMIC C1608 JB 1H 103K-T T T C41 4030006900 S.CERAMIC C1608 JB 1H 103K-T T T C44 4030006900 S.CERAMIC C1608 JB 1H 103K-T T T C44 4030006900 S.CERAMIC C1608 JB 1H 103K-T T T C44 4030006900 S.CERAMIC C1608 JB 1H 103K-T T T C44 4030001600 S.CERAMIC C1608 JB 1E 104K-T <t< td=""><td></td><td></td><td></td><td></td><td></td></t<>						
C28 4030006860 S.CERAMIC C1608 JB 1H 102K-T T C30 4030006860 S.CERAMIC C1608 JB 1H 102K-T T C31 4030006860 S.CERAMIC C1608 JB 1H 102K-T T C34 4030006860 S.CERAMIC C1608 JB 1H 102K-T T C37 4030006800 S.CERAMIC C1608 JB 1H 102K-T T C38 4030006800 S.CERAMIC C1608 JB 1H 103K-T T C39 4030006900 S.CERAMIC C1608 JB 1H 103K-T T C40 4030006900 S.CERAMIC C1608 JB 1H 103K-T T C41 4030006900 S.CERAMIC C1608 JB 1H 103K-T T C42 4030006900 S.CERAMIC C1608 JB 1H 103K-T T C44 4030006900 S.CERAMIC C1608 JB 1H 103K-T T C47 4030011600 S.CERAMIC C1608 JB 1E 104K-T T C52 4030011600 S.CERAMIC C1608 JB 1E 104K-T T C53 4030011600 S.CERAMIC <						
C301 40300078200 S.CERAMIC GRM31BR32J102KY01L T C31 4030006860 S.CERAMIC C1608 JB 1H 102K-T T T C32 4030006860 S.CERAMIC C1608 JB 1H 102K-T T T C37 4030006800 S.CERAMIC C1608 JB 1H 102K-T T T C38 4030006800 S.CERAMIC C1608 JB 1H 103K-T T T C40 4030006900 S.CERAMIC C1608 JB 1H 103K-T T T C41 4030006900 S.CERAMIC C1608 JB 1H 103K-T T T C44 4030006900 S.CERAMIC C1608 JB 1H 103K-T T T C44 4030006900 S.CERAMIC C1608 JB 1H 103K-T T T C44 4030011600 S.CERAMIC C1608 JB 1H 103K-T T T C44 4030011600 S.CERAMIC C1608 JB 1E 104K-T T T C52 4030011600 S.CERAMIC C1608 JB 1E 104K-T T T C55						
C324 4030006860 S.CERAMIC C1608 JB H H102K-T T C334 4030006800 S.CERAMIC C1608 JB H H103K-T T C336 4030006800 S.CERAMIC C1608 JB H H103K-T T C40 4030006900 S.CERAMIC C1608 JB H H103K-T T C41 4030006900 S.CERAMIC C1608 JB H H103K-T T C42 4030006900 S.CERAMIC C1608 JB H H103K-T T C44 4030006900 S.CERAMIC C1608 JB H H103K-T T C44 4030006900 S.CERAMIC C1608 JB H H103K-T T C44 403001600 S.CERAMIC C1608 JB H H103K-T T C44 4030016100 S.CERAMIC C1608 JB H E104K-T T C52 4030011600 S.CERAMIC C1608 JB H E104K-T T C53 4030011600 S.CERAMIC C1608 JB HE 104K-T T C55 4030011600 S.CERAMIC C1608 JB HE 104K-T T C57 403001600 S.CERAMIC	C30			GRM31BR32J102KY01L	Т	
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C40		4030006860			Т	
C41 4030006900 S.CERAMIC C1608 JB 1H 103K-T T C42 4030006900 S.CERAMIC C1608 JB 1H 103K-T T C47 4030006900 S.CERAMIC C1608 JB 1H 103K-T T C48 4030018410 S.CERAMIC C1608 JB 1H 103K-T T C52 4030011600 S.CERAMIC C1608 JB 1E 104K-T T C53 4030011600 S.CERAMIC C1608 JB 1E 104K-T T C55 4030011600 S.CERAMIC C1608 JB 1E 104K-T T C56 4030011600 S.CERAMIC C1608 JB 1E 104K-T T C57 4030011600 S.CERAMIC C1608 JB 1E 104K-T T T C59 4030011600 S.CERAMIC C1608 JB 1E 104K-T T T C61 4510007990 BLECTROLYTIC LEZEYSUBJOON T T C67 4510007960 S.ELECTROLYTIC LEZEYBLOTO LEZEYBLOTO T C70 40300018030 S.CERAMIC C1608 JB 1H 103K-T T T <						
C424 4030006900 S.CERAMIC C1608 JB 1H 103K-T T C47 4030006900 S.CERAMIC C1608 JB 1H 103K-T T C48 4030018410 S.CERAMIC C1608 JB 1H 103K-T T C52 4030011600 S.CERAMIC C1608 JB 1E 104K-T T C55 4030011600 S.CERAMIC C1608 JB 1E 104K-T T C56 4030011600 S.CERAMIC C1608 JB 1E 104K-T T C57 4030011600 S.CERAMIC C1608 JB 1E 104K-T T C59 4030011600 S.CERAMIC C1608 JB 1E 104K-T T C60 4030007010 S.CERAMIC C1608 JB 1E 104K-T T C61 4510007690 ELECTROLYTIC LX225VB2200 T C64 4510007690 S.ELECTROLYTIC LECTROLYTIC LX225VB2200 T C69 4510007670 S.ELECTROLYTIC EEVHB1C100R T C71 4510007670 S.CERAMIC C1608 JB 1H 103K-T [FR3000] C73 403001340						
C447 4030006900 S.CERAMIC C1608 JB 1H 103K-T T C48 4030018410 S.CERAMIC C1608 JB 1H 103K-T T C52 4030011600 S.CERAMIC C1608 JB 1E 104K-T T C53 4030011600 S.CERAMIC C1608 JB 1E 104K-T T C55 4030011600 S.CERAMIC C1608 JB 1E 104K-T T C56 4030011600 S.CERAMIC C1608 JB 1E 104K-T T C57 4030011600 S.CERAMIC C1608 JB 1E 104K-T T C59 4030011600 S.CERAMIC C1608 JB 1E 104K-T T C60 403001700 S.CERAMIC C1608 JB 1E 104K-T T C61 4510007960 ELECTROLYTIC LELECTROLYTIC LEVEYSUB2000 T C68 4510007670 S.ELECTROLYTIC LECTROLYTIC LEVHBC100R T C70 40300018030 S.CERAMIC C1608 JB 1E 104K-T T C71 4510007670 S.LELECTROLYTIC EVHBIC100R T C72 <td< td=""><td></td><td></td><td></td><td></td><td></td></td<>						
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C52						
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C61 4510007690 ELECTROLYTIC KX225VB2200 T C67 4510007690 ELECTROLYTIC KMY25VB1000 T C69 4510007670 S.ELECTROLYTIC ECEV1CA4R7NR (16V 4.7) T C70 4030006900 S.CERAMIC C1608 JB H 103K-T [FR3000] T C71 4510007670 S.ELECTROLYTIC EEVHB1C100R T C73 4030018030 S.CERAMIC E1608 JB H 103K-T [FR3100] T C74 4030011340 S.CERAMIC C1608 CH 1H 471J-T T T C78 4030007030 S.CERAMIC C1608 CH 1H 150J-T T T C79 4030007303 S.CERAMIC C1608 CH 1H 150J-T T T C80 4030007303 S.CERAMIC C1608 CH 1H 101J-T T T C81 4030007303 S.CERAMIC C1608 CH 1H 101J-T T T C82 4030008800 S.CERAMIC C1608 JB 1H 223K-T T T T C83 4030006850 S.CERAMIC C1608 JB 1H 471K-T T T T C99 <td></td> <td></td> <td></td> <td></td> <td></td>						
C68 4510006850 S.ELECTROLYTIC ECEV1CA4R7NR (16V 4.7) T C70 4500007670 S.ELECTROLYTIC EEVHB1C100R T C71 4030011600 S.CERAMIC C1608 JB B H 103K-T [FR3000] T C71 4510007670 S.ELECTROLYTIC EEVHB1C100R T C73 403001340 S.CERAMIC EEVHB1C100R T C74 4030007030 S.CERAMIC C1608 CH 1H 471J-T T C78 4030007130 S.CERAMIC C1608 CH 1H 150J-T T C80 4030007130 S.CERAMIC C1608 CH 1H 150J-T T C82 4030008880 S.CERAMIC C1608 CH 1H 101J-T T C83 4030006850 S.CERAMIC C1608 JB 1H 423K-T T C89 4030006860 S.CERAMIC C1608 JB 1H 471K-T T C90 4030006860 S.CERAMIC C1608 JB 1H 102K-T T C91 4030006860 S.CERAMIC C1608 JB 1H 103K-T T C92 4510007670 S.ELECTROLYTIC <td></td> <td>4510007690</td> <td></td> <td>LXZ25VB2200</td> <td>Т</td>		4510007690		LXZ25VB2200	Т	
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C107 4030011600 S.CERAMIC C1608 JB 1E 104K-T T C108 4030017490 S.CERAMIC C1608 JB 1A 105K-T T C109 4550003220 S.TANTALUM TESVA 1E 105MBL [FR3100] T C110 4030006860 S.CERAMIC C1608 JB 1H 102K-T T T C111 4030008920 S.CERAMIC C1608 JB 1H 473K-T [FR3100] T C112 4030011600 S.CERAMIC C1608 JB 1E 104K-T [FR3000] T C113 4030006950 S.CERAMIC C1608 CH 1H 040C-T T J1 6510022800 S.CONNECTOR B10B-PH-SM3-TB T J2 6510007020 CONNECTOR TMP-J01X-V6 T					Т	
C108 4030017490 S.CERAMIC C1608 JB 1A 105K-T T C109 4550003220 S.TANTALUM TEESVA 1E 105M8L [FR3100] T C110 4030006860 S.CERAMIC C1608 JB 1H 102K-T [FR3000] T C111 4030008920 S.CERAMIC C1608 JB 1H 102K-T [FR3000] T C112 4030011600 S.CERAMIC C1608 JB 1E 104K-T [FR3000] T C113 403006950 S.CERAMIC C1608 CH 1H 040C-T T J1 6510022800 S.CONNECTOR B10B-PH-SM3-TB T J2 6510007020 CONNECTOR TMP-J01X-V6 T						
C109 4550003220 S.TANTALUM TEESVA 1E 105M8L [FR3100] T C110 4030006860 S.CERAMIC C1608 JB 1H 102K-T T C111 4030008920 S.CERAMIC C1608 JB 1H 102K-T [FR3000] T C112 4030011600 S.CERAMIC C1608 JB 1H 473K-T [FR3000] T C113 4030016950 S.CERAMIC C1608 JB 1E 104K-T [FR3000] T J1 6510022800 S.CONNECTOR B10B-PH-SM3-TB T J2 6510007020 CONNECTOR TMP-J01X-V6 T						
C110 4030006860 4030006860 S.CERAMIC S.CERAMIC C1608 JB 1H 102K-T C1608 JB 1E 104K-T C1608 CH 1H 040C-T T J1 6510022800 6510007020 S.CONNECTOR CONNECTOR B10B-PH-SM3-TB TMP-J01X-V6 T						
C111 4030008920 S.CERAMIC C1608 JB 1H 473K-T [FR3100] T [FR3000] T T C112 4030011600 S.CERAMIC C1608 JB 1E 104K-T [FR3000] T T C113 4030006950 S.CERAMIC C1608 CH 1H 040C-T T J1 6510022800 S.CONNECTOR B10B-PH-SM3-TB TMP-J01X-V6 T		4030006860	S.CERAMIC	C1608 JB 1H 102K-T	Т	
C112 4030011600 S.CERAMIC C1608 JB 1E 104K-T [FR3000] T C113 4030006950 S.CERAMIC C1608 CH 1H 040C-T T J1 6510022800 S.CONNECTOR B10B-PH-SM3-TB T J2 6510007020 CONNECTOR TMP-J01X-V6 T						
C113						
J2 6510007020 CONNECTOR TMP-J01X-V6 T					1	
J2 6510007020 CONNECTOR TMP-J01X-V6 T						
	J2	6510007020	CONNECTOR	IMP-J01X-V6	Т	

[FR3000]: IC-FR3000, [FR3100]: IC-FR3100

7030003370

7030003440

R62

R63

S RESISTOR

S.RESISTOR

ERJ3GEYJ 271 V (270 Ω)

ERJ3GEYJ 102 V (1 kΩ)

M.=Mounted side (T: Mounted on the Top side, B: Mounted on the Bottom side) S.=Surface mount

Т

[FR3100]

[PA UNIT]

	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			
REF NO.	ORDER NO.		DESCRIPTION	М.
T2	5910001000	TRANSFORMER	TC-7	Т
W3	7030003860	S.RESISTOR	ERJ3GE JPW V	Т
EP1 EP2 EP3	6910014490 6910014490 0910056443	TERMINAL TERMINAL PCB	OP-100 M3 OP-100 M3 B 5996C	T

[VR UNIT]

REF NO.	ORDER NO.		DESCRIPTION	M
R1 R2	7210003110 7210003120	VARIABLE VARIABLE	RK0971110 10KA RK0971110 10KB	T
J1	6510018950	S.CONNECTOR	B7B-PH-SM3-TB	Т
EP1	0910056261	РСВ	B 5999A	

[JACK1 UNIT]

[FR3000]: IC-FR3000, [FR3100]: IC-FR3100

M.=Mounted side (T: Mounted on the Top side, B: Mounted on the Bottom side) S.=Surface mount

[JACK2 UNIT]

ORDER REF **DESCRIPTION** M. NO. NO. S.DIODE S.DIODE NNCD8.2C-T1 1750000930 D2 1750000930 NNCD8.2C-T1 D3 1750000930 S DIODE NNCD8 2C-T1 T T S.DIODE D4 1750000930 NNCD8.2C-T1 D5 Ť 1750000930 S.DIODE NNCD8.2C-T1 1750000930 S.DIODE NNCD8.2C-T1 Т D6 D11 1750000930 S.DIODE NNCD8.2C-T1 B B D12 1750000930 S DIODE NNCD8 2C-T1 В D13 1750000930 S.DIODE NNCD8.2C-T1 D14 1750000930 S.DIODE NNCD8.2C-T1 В D15 1750000930 S.DIODE NNCD8.2C-T1 B B B D16 1750000930 S DIODE NNCD8 2C-T1 S.DIODE D17 1750000930 NNCD8.2C-T1 D18 1750000930 S.DIODE NNCD8.2C-T1 В D19 1750000930 S.DIODE NNCD8.2C-T1 В 1750000930 D20 S.DIODE NNCD8.2C-T1 В D21 1750000930 S.DIODE NNCD8 2C-T1 B B 1750000930 S.DIODE D22 NNCD8.2C-T1 S.DIODE NNCD8.2C-T1 В D23 1750000930 BI M21PG221SN1 6200009940 S.COIL В L1 L2 6200009940 S.COIL BLM21PG221SN1 В L3 6200009940 S.COIL BLM21PG221SN1 В L4 L5 L6 6200009940 S.COIL BLM21PG221SN1 B B B BI M21PG221SN1 6200009940 S.COIL BLM21PG221SN1 6200009940 S.COIL S.COIL BLM21PG221SN1 L11 6200009940 Т L12 6200009940 S.COIL BLM21PG221SN1 Т Т L13 6200009940 S.COIL BI M21PG221SN1 BLM21PG221SN1 L14 6200009940 S.COIL T L15 6200009940 S.COIL BLM21PG221SN1 L16 6200009940 S.COIL BLM21PG221SN1 L17 6200009940 S.COIL BLM21PG221SN1 T T BI M21PG221SN1 L18 6200009940 S COIL 6200009940 BLM21PG221SN1 L19 S.COIL Т BLM21PG221SN1 Ť L20 6200009940 S.COIL L21 6200009940 S.COIL BLM21PG221SN1 Т S.COIL S.COIL L22 6200009940 BLM21PG221SN1 T T BI M21PG221SN1 123 6200009940 C1608 CH 1H 470J-T C1 4030007090 S.CERAMIC Т C2 C3 C4 S.CERAMIC 4030007090 C1608 CH 1H 470J-T T C1608 CH 1H 470J-T 4030007090 S.CERAMIC 4030007090 S.CERAMIC C1608 CH 1H 470J-T C5 4030007090 S.CERAMIC C1608 CH 1H 470J-T C6 C8 4030007170 S.CERAMIC C1608 CH 1H 221J-T T T C1608 CH 1H 221J-T 4030007170 S.CERAMIC C11 В 4030007170 S.CERAMIC C1608 CH 1H 221J-T C12 4030007170 S.CERAMIC C1608 CH 1H 221J-T В C13 4030007170 S.CERAMIC C1608 CH 1H 221J-T В C14 C15 S.CERAMIC S.CERAMIC B B 4030007170 C1608 CH 1H 221J-T C1608 CH 1H 221J-T 4030007170 C16 S.CERAMIC C1608 CH 1H 221J-T В 4030007170 C17 4030007170 S.CERAMIC C1608 CH 1H 221J-T В C18 C19 C20 4030007170 S.CERAMIC C1608 CH 1H 221J-T B B B C1608 CH 1H 221J-T 4030007170 S.CERAMIC 4030007170 S.CERAMIC C1608 CH 1H 221J-T 4030007170 S.CERAMIC C1608 CH 1H 221J-T В C21 C22 4030007170 S.CERAMIC C1608 CH 1H 221J-T В C23 4030007170 S.CERAMIC C1608 CH 1H 221J-T В J1 6510023290 CONNECTOR DBR61-25K1200-B J2 6510022730 S.CONNECTOR S.CONNECTOR S13B-PH-SM3-TB S13B-PH-SM3-TB J3 6510022730 В EP1 0910056291 **PCB** B 6001A

[FR3000]: IC-FR3000, [FR3100]: IC-FR3100

M.=Mounted side (T: Mounted on the Top side, B: Mounted on the Bottom side) S.=Surface mount

SECTION 6 OPTION UNIT INSTALLATION

6-1 Opening the repeater's case

Follow the case and cover opening procedures shown here when an optional unit is installed or adjust the internal units, etc.

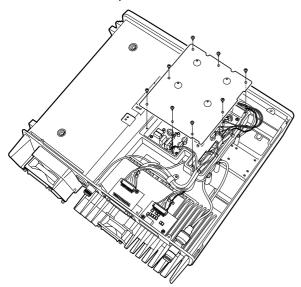
CAUTION: DISCONNECT the AC power cable and/or DC power cable from the repeater. Otherwise, there is danger of electric shock and/or equipment damage.

- ① Remove 6 screws from the top of the repeater and 4 screws from the sides, then lift up the top cover.
- 2 Turn the repeater upside down.
- 3 Remove 6 screws from the bottom of the repeater, and 4 screws from the sides, then lift up the bottom cover.

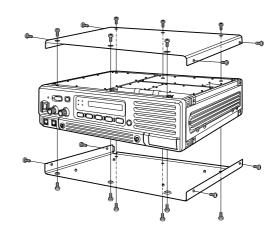
6-2 Voice scrambler unit installation

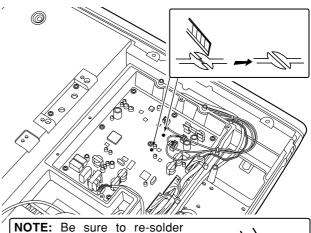
The UT-109 (#01)/UT-110 (#01) provides high performance private communication for base operating mode. In order to receive or send scrambled transmissions, the UT-109 (#01)/UT-110 (#01) must be installed and to activate the scrambler function.

- 1) Remove the top and bottom covers as shown above.
- ② Remove 8 screws from the LOGIC shielding plate, then remove the plate.

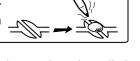


③ Cut the pattern on the PCB at the RX AF circuit (CP1) and TX mic circuit (CP2) on the LOGIC unit as shown at right.

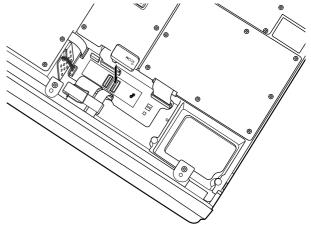




above disconnected points, otherwise no TX modulation or AF output is available when you remove the scrambler unit.



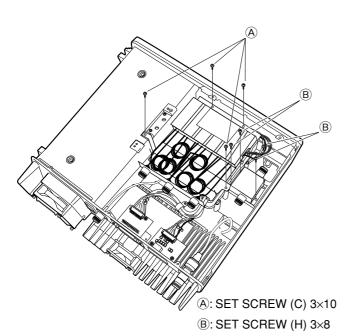
4 Turn the repeater upside down, then install the scrambler unit as shown below.



(5) Return the LOGIC shielding plate, top and bottom covers to their original positions.

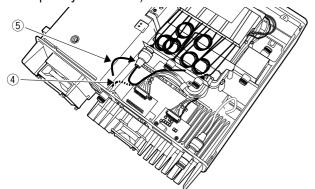
6-3 Duplexer and isolater installation

- ① Remove the top and bottom covers (See page 6-1).
- 2 Tighten 4 screws, A, for installing the duplexer unit.
- 3 Tighten 4 screws, B, for installing the isolater unit.

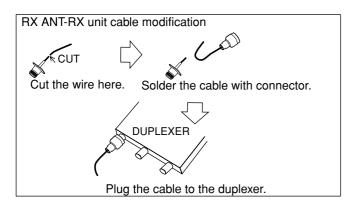


BOTTOM VIEW OF THE REPEATER

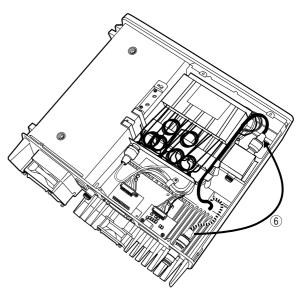
- 4 Cut the RX ANT-RX unit cable and then modify it.
- (5) Connect the modified cable to the duplexer unit (RX frequency connector)



BOTTOM VIEW OF THE REPEATER

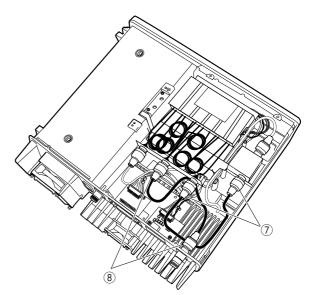


⑥ Unplug the TX ANT-PA unit cable from the TX ANT connecter (CHASSIS), and then plug to the isolater (input connector).



BOTTOM VIEW OF THE REPEATER

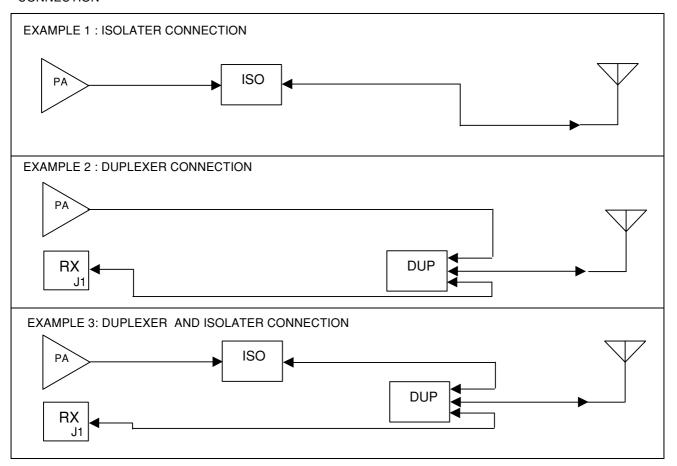
- ⑦ Connect the *cable between the isolator (output connector) and the duplexer (TX frequency connector).
- ® Connect the *cable between the duplexer (ANT connector) and the TX ANT connector (CHASSIS).
- Return the top and bottom cover to their original position.



BOTTOM VIEW OF THE REPEATER

*NOTE: Connection cable are not supply with the isolater and the duplexer. Therefore, need to make them by yourself.

CONNECTION



ISO: ISOLATER DUP: DUPLEXER

SECTION 7 MECHANICAL PARTS AND DISASSEMBLY

[CHASSIS PARTS]

REF	ORDER	DESCRIPTION	QTY.
NO.	NO.		
W2	8900011521	OPC-1049A (Power SW cable)	1
W7	8900011571	OPC-1055A (LOGIC-JACK2 cable A)	1
W8	8900011580	OPC-1056 (LOGIC-JACK2 cable B)	1
W9 W16	8900011590 8900011681	OPC-1057 (LOGIC-JACK1 cable)	1
		OPC-1183A (LOGIC-VR cable)	1
W17	8900011690	OPC-1184 (LOGIC-FRONT cable)	'
WS1	8600036930	SX2368 P01CH	1
WS2	8970024130	FX2367 J lead set (1)/CH [FR3100]	1
MP1	8210018430	2368 front panel assembly	1
MP2	8310052480	2368 Window plate	1
MP3	8930056450	2368 6-key	1
MP4	8930056440	2368 2-key	1
MP5	8210018300	2368 sub panel	1
MP6	8930058000	2368 filter net	1
MP8	8930059660	2368 A-sponge	1
MP9	8930059670	2368 B-sponge	1
MP10	8930059650	2368 front sheet	1
MP11	8860001290	Grip ring NO.3	2
MP12	8820001230	2368 screw	2
MP14	8610009760	Knob N233	1
MP15	8610009760	Knob N233	1
MP16	8010018550	2368 sub chassis	1
MP17	8010018540	2368 chassis	1
MP19	8110007480	2368 L-cover	1
MP20	8930057680	Rubber stand (O)	4
MP25	8110007640	2368 LOGIC shield cover	1
MP26	8930056620	2368 D-sub plate	1
MP27	8930059060	2368 Fin cover Y656	1
MP37	8950003170	Nylon clip SL-8N	1
MP56	8810007230	Set screw H M3 × 8	2
MP57	8810007230	Set screw H M3 × 8	1
MP65	8810008450	Bind screw M4 × 8 ZK	10
MP66	8810005710	Screw PH B0 M2 × 6 ZK	4
MP67	8810005710	Screw PH B0 M2 × 6 ZK	2
MP68	8810009650	Screw FH BT M3 × 8 NI-ZU	6
MP69	8810008660	Screw PH BT M3 × 8 NI-ZU	8
MP77	8810008660	Screw PH BT M3 × 8 NI-ZU	8
MP82	8810008660	Screw PH BT M3 × 8 NI-ZU	4
MP84	8810008660	Screw PH BT M3 × 8 NI-ZU	7
MP85	8810008660	Screw PH BT M3 × 8 NI-ZU	9
MP86	8810008660	Screw PH BT M3 × 8 NI-ZU	2
MP87	8810008660	Screw PH BT M3 × 8 NI-ZU	1
MP91	8810008660	Screw PH BT M3 × 8 NI-ZU	2
MP92	8810008660	Screw PH BT M3 × 8 NI-ZU	1
MP101	8930018620	Himelon sheet Y	4
MP102	8930047050	Himelon sheet BU	1
MP106	8930007510	Knob spring NO.7800	1
MP107	8930007510	Knob spring NO.7800	1
MP108	8930003580	Alminum sheet U [FR3100]	1
SP1	2510001200	Speaker C057FA510-10	1

[FRONT UNIT]

-		
ORDER NO.	DESCRIPTION	QTY.
6910014560	Spacer LM-15	1
6910014550	Spacer LM-13	1
6910014540	Spacer LM-10	1
	NO. 6910014560 6910014550 6910014540 6910014540 6910014540	NO. DESCRIPTION 6910014560 Spacer LM-15 6910014550 Spacer LM-13 6910014540 Spacer LM-10 6910014540 Spacer LM-10 6910014540 Spacer LM-10

[LOGIC UNIT]

REF NO.	ORDER NO.	DESCRIPTION	QTY.
EP2	6910014900	FRC-50-12-6.5	1
EP3	6910014890	FRC-WC1	1
F1	5210000030	Fuse FGB 1A (FGB0 125V)	1
F2	5220000020	Fuse holder S-N5051	1
F3	5220000020	Fuse holder S-N5051	1
W3	8900008940	Cable OPC-886 (P=1 N=10 L=75)	1
W4	8900009230	Cable OPC-908 (P=1 N=10 L=60)	1
W5	8900008740	Cable OPC-867 (P=1 N=24 L=60)	1
W10	8900009270	Cable OPC-912 (P=1 N=22 L=70)	1
W11	8900009270	Cable OPC-912 (P=1 N=22 L=70)	1

[JACK2 UNIT]

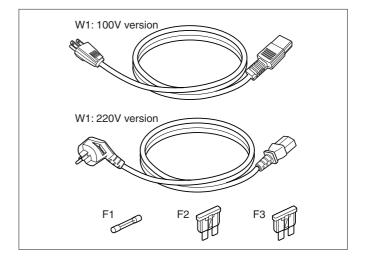
REF NO.	ORDER NO.	DESCRIPTION	QTY.
J1	6510023290	Connector DBR61-25K1200-B (Incl. Stand-off)	1

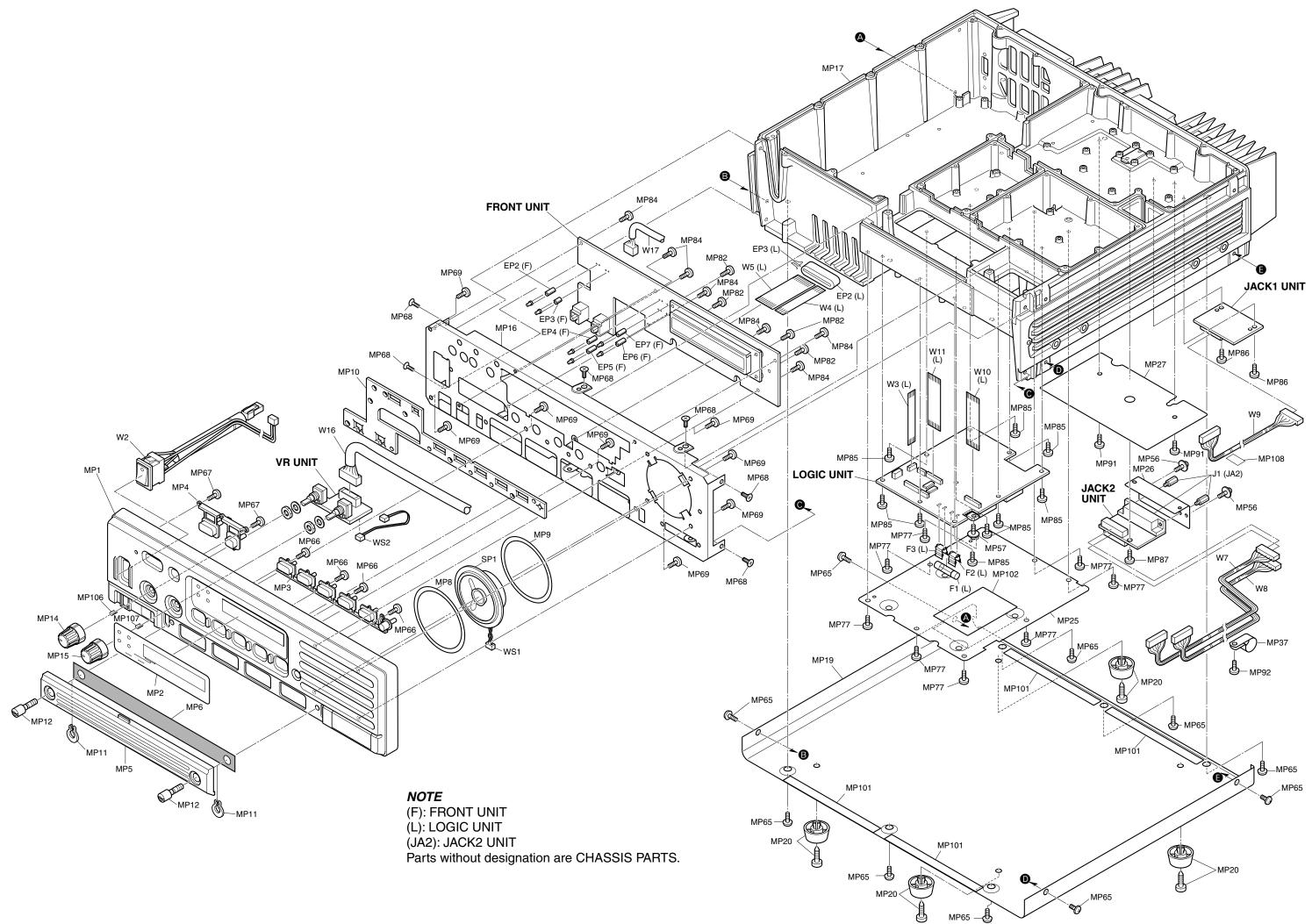
Screw abbreviations

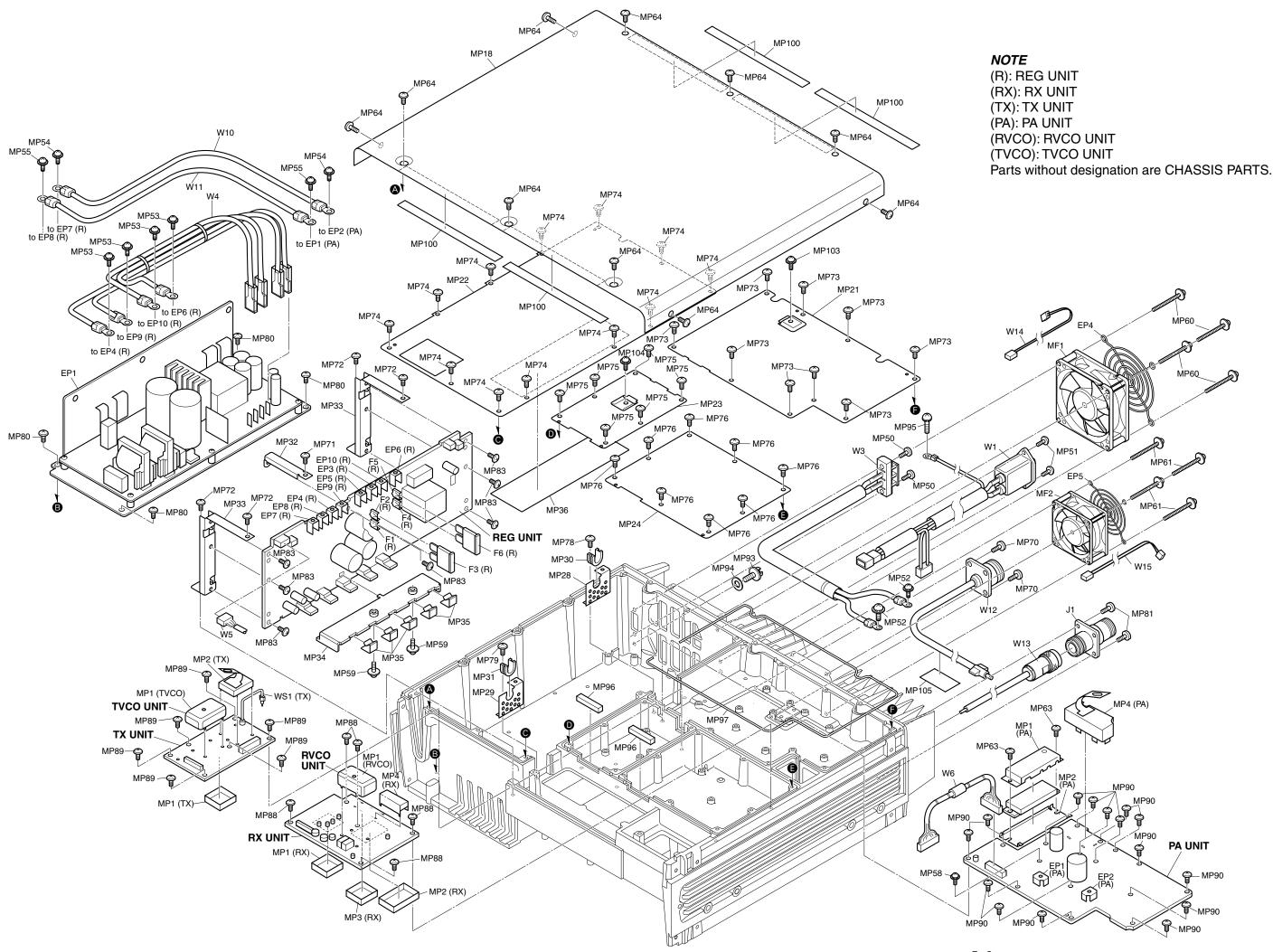
B0, BT: Self-tapping PH: Pan head FH: Flat head NI-ZU: Nickel-Zinc ZK: Black

[ACCESSORIES]

-	-		
REF NO.	ORDER NO.	DESCRIPTION	QTY.
F1	5210000030	Fuse FGB 1A (FGB0 125V)	1
F2	5210000850	Fuse ATC-20	1
F3	5210000850	Fuse ATC-20	1
W1	8900005130	Cable OPC-492 (220V version)	1
	8900005250	Cable OPC-510 (100V version)	1







ICHASSIS PARTS

REF NO.	ORDER NO.	DESCRIPTION	QTY
J1	6510022970	Connector N-PA-JJ(NI)	1
W1	8900011510	OPC-1048 (AC input cable)	1
W3	8900011531	OPC-1050A (Back up DC cable)	1
W4	8900011540	OPC-1052 (PS output cable)	1
W5	8900011550	OPC-1053 (REG-LOGIC cable)	
W6	8900011560	OPC-1054 (PA-TX cable)	1
W10	8900011600	OPC-1058 (REG-PA cable red)	
W11	8900011610	OPC-1059 (REG-PA cable black)	
W12	8900011510	OPC-1247 (RX-ANT cable)	
W13	8900012170	OPC-1255 (2367 TX-ANT cable)	
W14	8900012310	OPC-1265 (REF-FAN/tube)	1
W15	8900011660	OPC-1178 (PA-FAN cable) [FR3000]	1 '
EP1	6910014470	Unit board FP2152A (100V version)	1
	6910014480	Unit board FP2153A (220V version)	1
EP4	6910008330	G80-18 (Fin gured)	1
EP5	8930030420	Cover FG60B	1
MF1	2710000750	Fan FBA08A12LZ	1
MF2	2710000740	Fan FBA06A12L	1
MP18	8110007490	2368 U-cover	1
MP21	8510015490	2367 PA shield cover	1
MP22	8510013770	2368 REG shield cover	1
MP23	8510013790	2368 TX shield cover	1
MP24	8510013780	2368 RX shield cover	1
MP28	8510013810	2368 KC plate Y599	1
MP29	8510013810	2368 KC plate Y599	1
MP30	8010004340	Edging rubber FX452	1
MP31	8010004340	Edging rubber FX452	1
MP32	8930056650	2368 PCB angle Y600	1
MP33	8930056660	2368 REG PCB angle	2
MP34	8410002510	2368 REG heat sink	1
MP35	8930035230	1546 TR-A clip	5
MP36	8930005460	Isolating sheet G	1
MP50	8810000420	Screw PH M4 × 18	2
MP51	8810009030	Screw FH (pan head) M3 × 8 ZK	2
MP52	8810007230	Set screw H M3 × 8	2
MP53	8810007230	Set screw H M3 × 8	4
MP54	8810007230	Set screw H M3 × 8	2
MP55	8810007230	Set screw H M3 × 8	2
MP58	8810007230	Set screw H M3 × 8	1
MP59	8810003380	Set screw C M3 × 10	2
MP60	8810010130	Set screw (C) 3 × 35	4
MP61	8810010130	Set screw (C) 3 × 35 [FR3000]	4
	8810003360	Set screw C 3 × 6 [FR3100]	4
MP62	8810009040	Set screw H M2.6 × 10 NI	2
MP63	8810004830	Screw PH M3 × 10 surface BS	2
MP64	8810008450	Bind screw M4 × 8 ZK	10
MP70	8810008660	Screw PH BT M3 × 8 NI-ZU	2
MP71	8810008660	Screw PH BT M3 × 8 NI-ZU	1
MP72	8810008660	Screw PH BT M3 × 8 NI-ZU	4
MP73	8810008660	Screw PH BT M3 × 8 NI-ZU	9
MP74	8810008660	Screw PH BT M3 × 8 NI-ZU	12
MP75	8810008660	Screw PH BT M3 × 8 NI-ZU	6
MP76	8810008660	Screw PH BT M3 × 8 NI-ZU	8
MP78	8810008660	Screw PH BT M3 × 8 NI-ZU	1
MP79	8810008660	Screw PH BT M3 × 8 NI-ZU	1
MP80	8810008660	Screw PH BT M3 × 8 NI-ZU	4
MP81	8810008660	Screw PH BT M3 × 8 NI-ZU	2
MP83	8810008660	Screw PH BT M3 × 8 NI-ZU	7
MP88	8810008660	Screw PH BT M3 × 8 NI-ZU	5
MP89	8810008660	Screw PH BT M3 × 8 NI-ZU	6
MP90	8810008660	Screw PH BT M3 × 8 NI-ZU	15
MP93	8820000530	Flange volt M4 × 8 NI	1
MP94	8850000140	Flat washer M4 NI BS	1
MP95	8810003860	Set screw A M4 × 8	1
MP96	8930059330	Shield sponge (W)	2
MP97	8930059340	2368 A-shield line	1
	8930018620	Himelon sheet Y	4
MP100		1	1 .
MP100 MP103	8810005770	Set screw Bind M3 × 8 Black	1
MP100 MP103 MP104	8810005770 8810005770	Set screw Bind M3 × 8 Black Set screw Bind M3 × 8 Black	1

[RX UNIT]

REF NO.	ORDER NO.	DESCRIPTION	QTY.
MP1	8510015120	2368 A-case	1
MP2	8510015130	2368 B-case	1
MP3	8510015140	2368 E-case	1
MP4	8510015480	2367 shield case	1

[TX UNIT]

REF NO.	ORDER NO.	DESCRIPTION	QTY.
MP1 MP2	8510015120 8510015240	2368 A-case 2368 TX shield case assembly	1
WS1	8970024070	FX2368 1.5D coaxial cable (1) / TX	1

[RVCO UNIT]

REF NO.	ORDER NO.	DESCRIPTION	QTY.
MP1	8510014700	2368 RVCO case	1

[TVCO UNIT]

REF NO.	ORDER NO.	DESCRIPTION	QTY.
MP1	8510014690	2368 TVCO case	1

[REG UNIT]

REF NO.	ORDER NO.	DESCRIPTION	QTY.
F1	5220000300	Fuse holder 1A5600	1
F2	5220000300	Fuse holder 1A5600	1
F3	5210000850	Fuse ATC-20	1
F4	5220000300	Fuse holder 1A5600	1
F5	5220000300	Fuse holder 1A5600	1
F6	5210000850	Fuse ATC-20	1
EP3	6910011340	Terminal OT-010 M3	1
EP4	6910011340	Terminal OT-010 M3	1
EP5	6910011340	Terminal OT-010 M3	1
EP6	6910011340	Terminal OT-010 M3	1
EP7	6910011340	Terminal OT-010 M3	1
EP8	6910011340	Terminal OT-010 M3	1
EP9	6910011340	Terminal OT-010 M3	1
EP10	6910011340	Terminal OT-010 M3	1

[PA UNIT]

REF NO.	ORDER NO.	DESCRIPTION	
EP1	6910014490	Terminal OP-100 M3	1
EP2	6910014490	Terminal OP-100 M3	1
MP1	8930060410	2367 Module holde	1
MP2	8930060420	2367 module plate	1
MP3	8510015550	2367 PA shield case assembly Y677	1

Screw abbreviations

B0, BT: Self-tapping PH: Pan head FH: Flat head

NI-ZU: Nickel-Zinc ZK: Black

SECTION 8 SEMI-CONDUCTOR INFORMATION

8 - 1 TRANSISTORS AND FETS

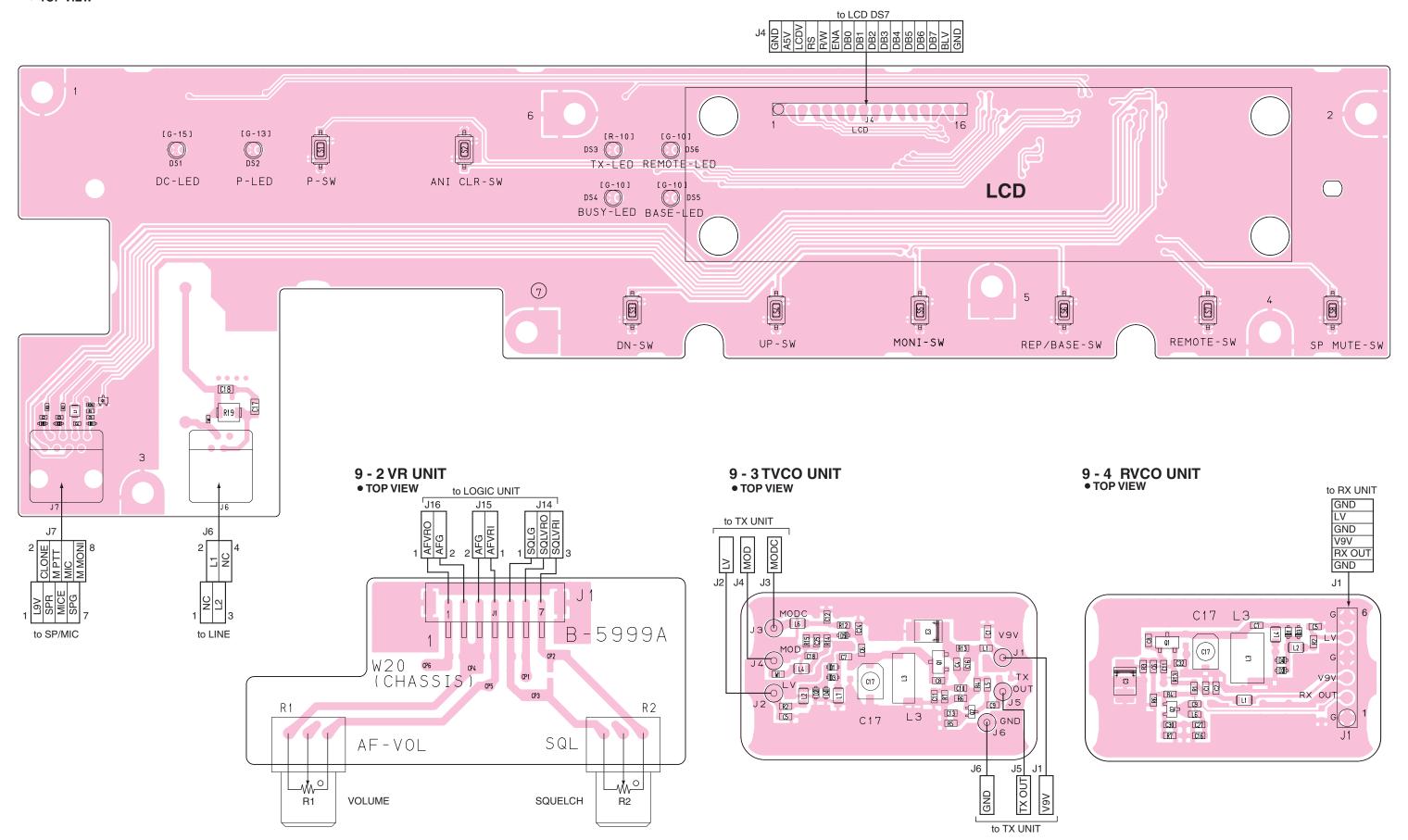
2SA1362-Y	2SA1576A T106R	2SB1182 TL Q	2SC2712-BL	2SC3661-TB
(Symbol: AEY)	(Symbol: FR)	(Symbol: B1182, Q)	(Symbol: LL)	(Symbol: FY)
2SC4081 T106 R	2SC4116-Y	2SC4215-O	2SC4226-T1 R25	2SC4703-T2 SF
(Symbol: BR)	(Symbol: LY)	(Symbol: QO)	(Symbol: R25)	(Symbol: SF)
2SC5006-T1	2SC5337QS-T1	2SD1664 T100Q	2SD1760 TLQ	2SJ377 (TE16R)
(Symbol: 24)	(Symbol: QS)	(Symbol: DAQ)	(Symbol: D1760)	(Symbol: J377)
2SJ533	2SJ553STR	2SK1771 (TE85R)	2SK3475 (TE12L)	2SK508 K53 T1B
(Symbol: J533)	(Symbol: J553)	(Symbol: UB)	(Symbol: WB)	(Symbol: K53)
2SK880Y	DTA143ZUA T106	DTA144EE TL (Symbol: 16)	DTC114EUA T106	DTC143ZUA T106
(Symbol: XY)	(Symbol: 113)		(Symbol: 24)	(Symbol: 123)
S G	B	B	B C	B
DTC144EE TL (Symbol: 26)	DTC144EUA T106 (Symbol: 26)	IMZ4 T108 (Symbol: Z4)	XP1111 (TX) (Symbol: 9S) B1 C1 E1 C2	XP1114(TX) (Symbol: 7Q) B1 C1 E1 C2
XP1214(TX) (Symbol: 9H) B1 C1 E1 C2	XP4311 (TX) (Symbol: 3X) E1 C1 B1 B2 C2 E2			

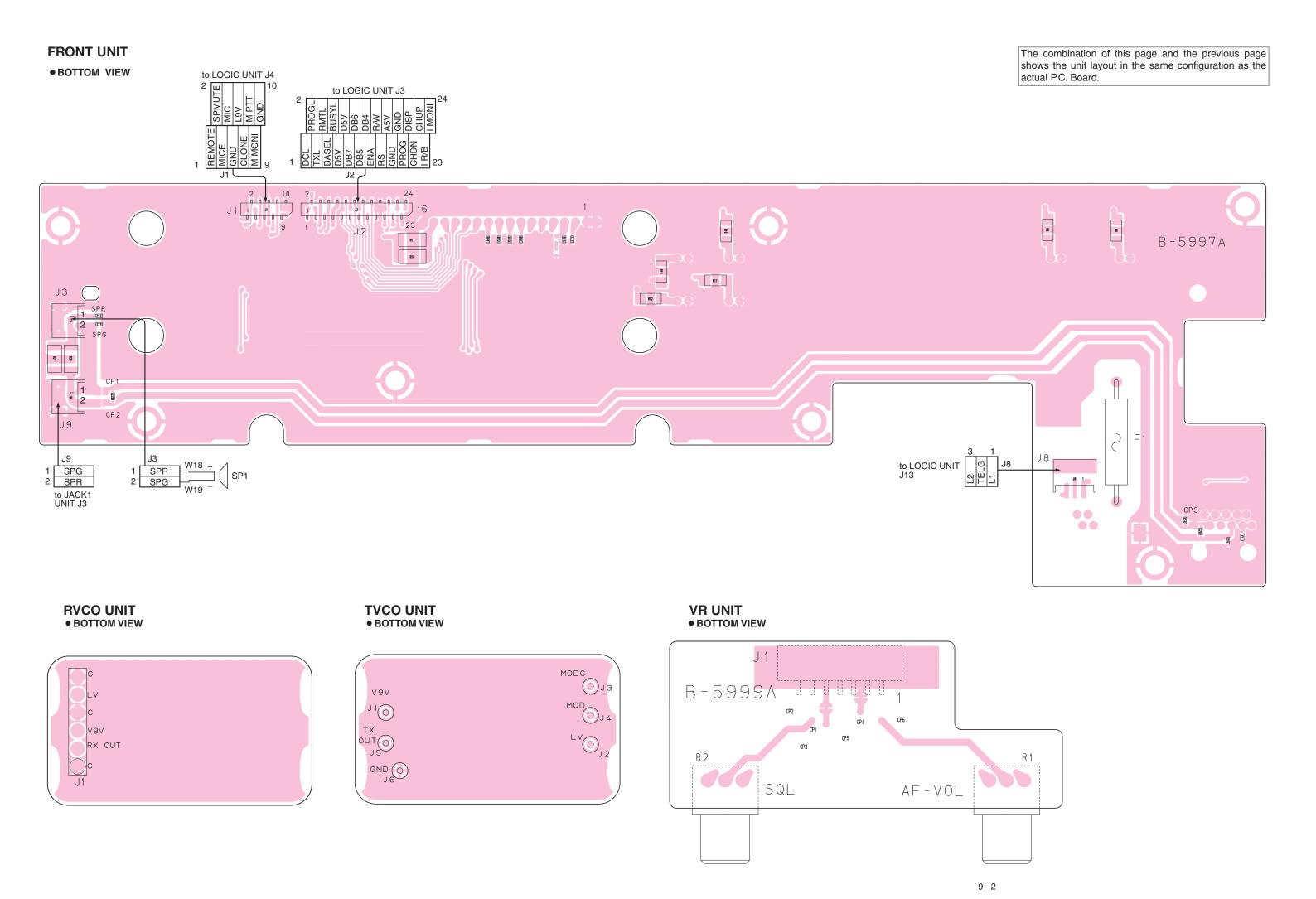
8-2 DIODES

1SS226 (TE85R) (Symbol: C3)	1SS268 (TE85R) (Symbol: BF)	1SS319 (TE85R) (Symbol: A4)	1SS355 TE-17 (Symbol: A)	1SV305 (TPL3) (Symbol: TV)
A C	A1 C	A1 C1	C A	C A
1SV308 (TPL3) (Symbol: TX)	D1UBA80-4062 (Symbol: UA80)	DSA3A1 (Symbol: None)	FCH30A03L (Symbol: FCH30A03L)	HSU88TRF (Symbol: 9)
C [] A	A, C A, C	C Green A	A C A	C
MA29W-B (Symbol: Blown line)	MA2S077-(TX) (Symbol: S)	MA2S111-(TX) (Symbol: A)	MA8047-M(TX) (Symbol: 4-7)	NNCD8.2C-T1 (Symbol: None)
C brown A	C □ A	C □ A	C □ □ □ A	C C
PTZ TE25 13B (Symbol: 13B)	PTZ TE25 36B (Symbol: 36, B)	SB07-03C-TB (Symbol: J)		
A C C	C [A	A C		

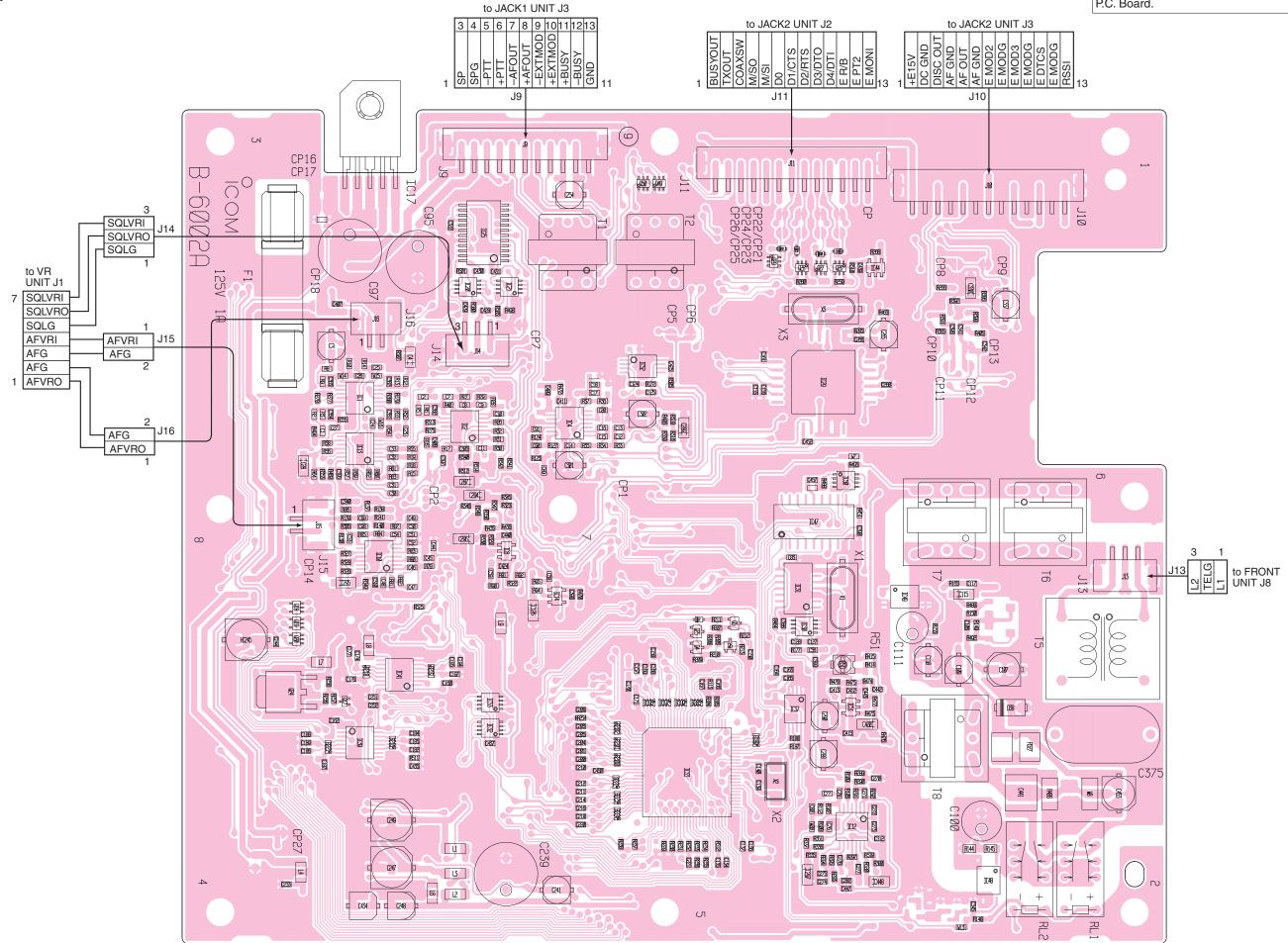
9 - 1 FRONT UNIT

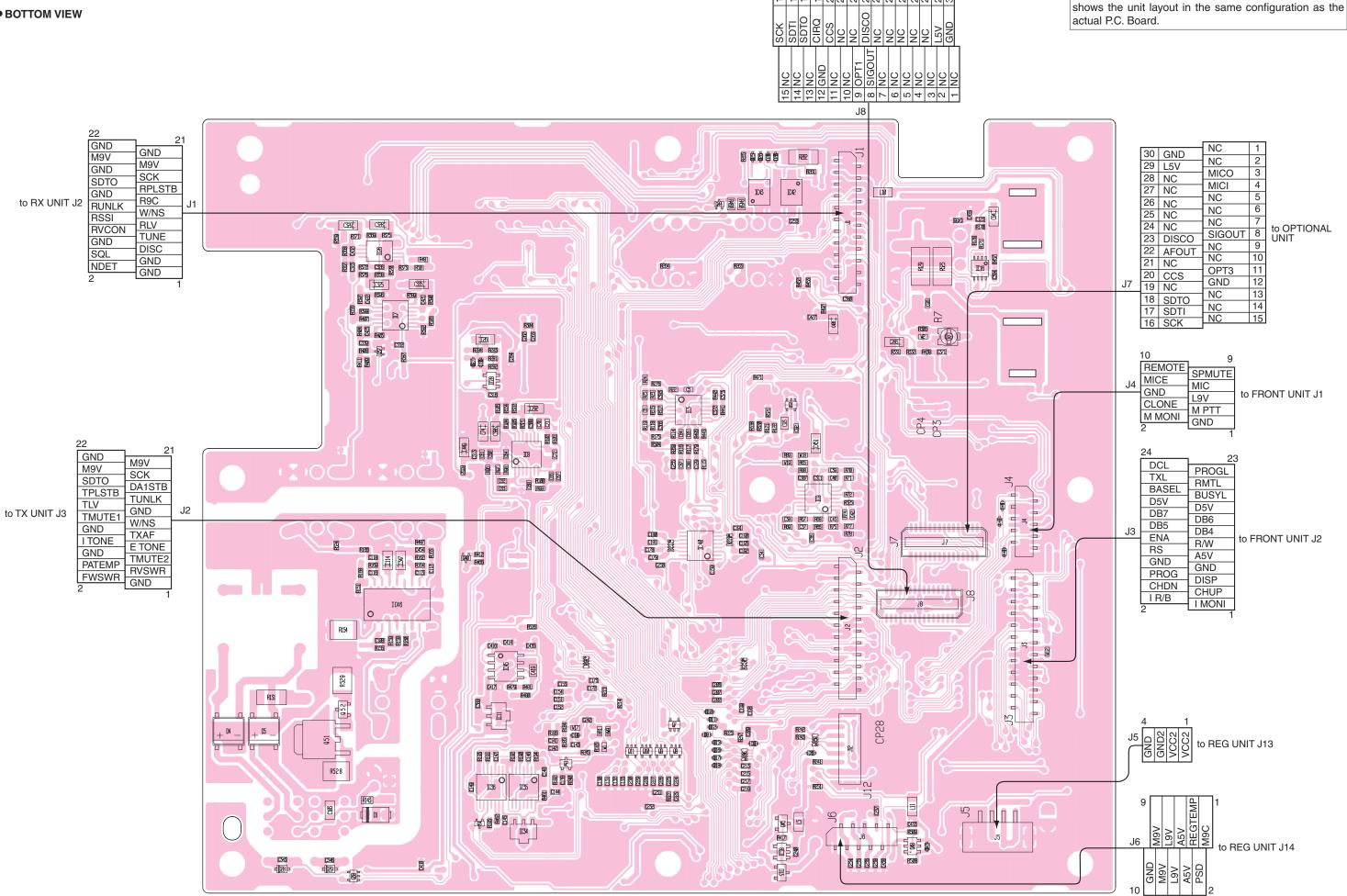
• TOP VIEW





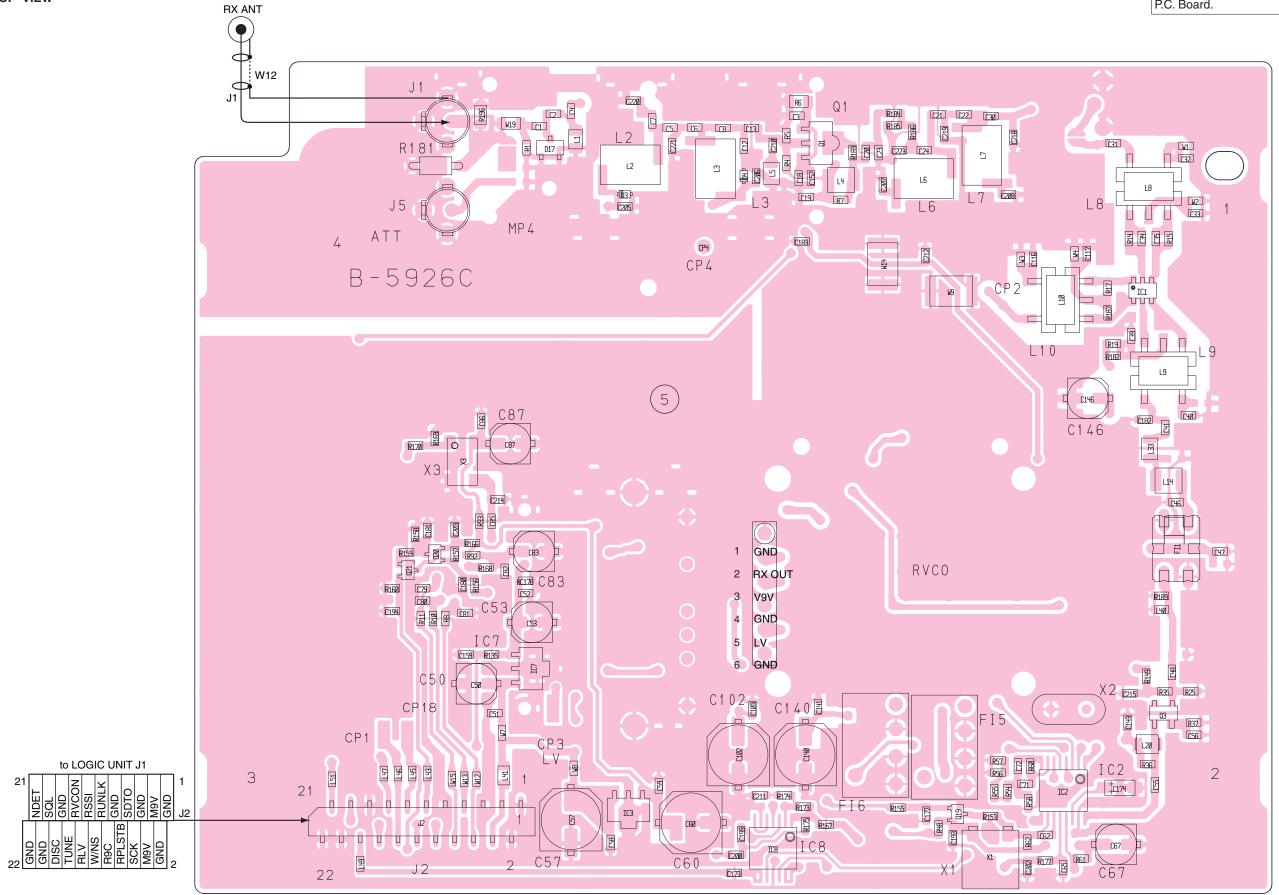
The combination of this page and the next page shows the unit layout in the same configuration as the actual P.C. Board.





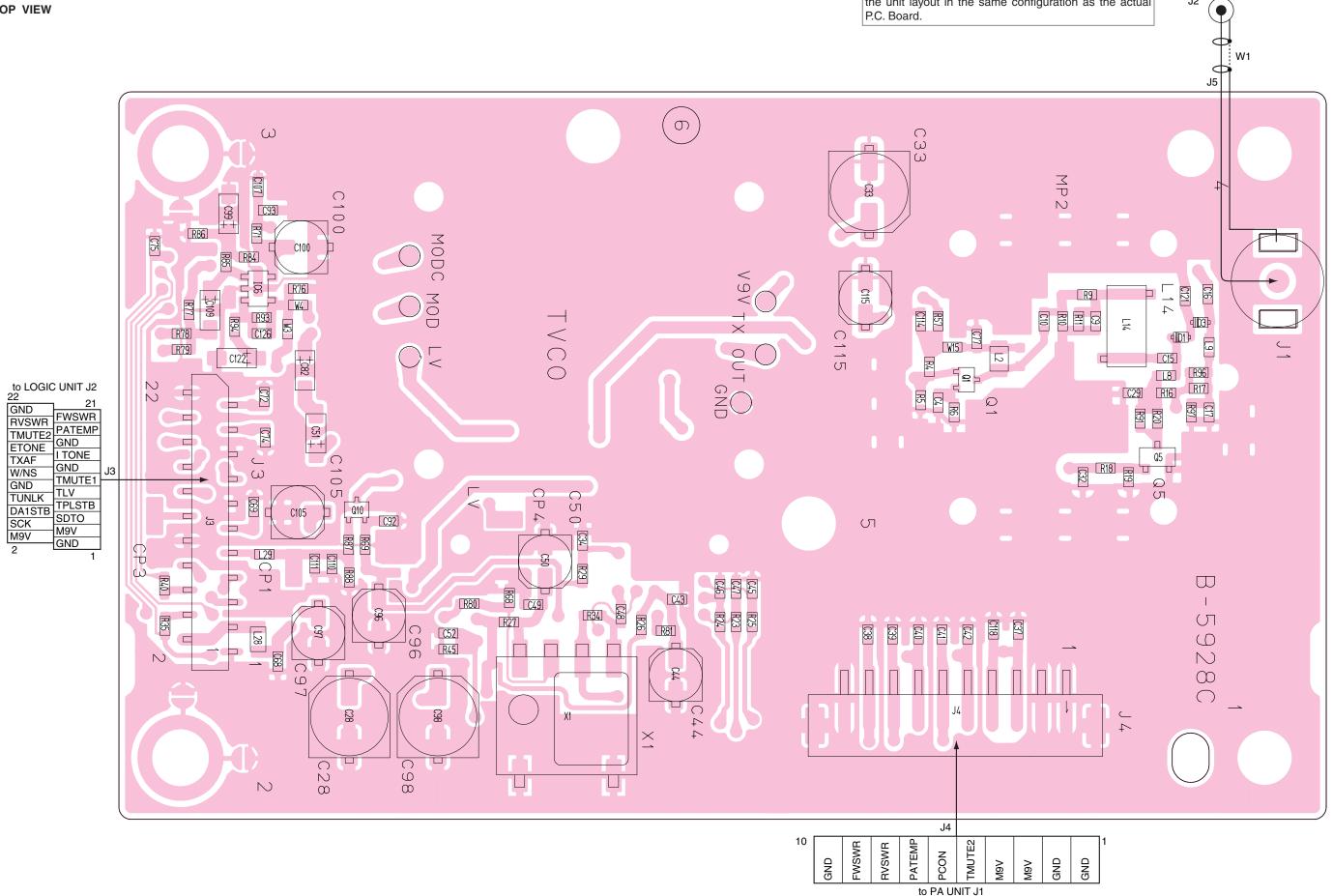
to OPTIONAL UNIT

The combination of this page and the previous page





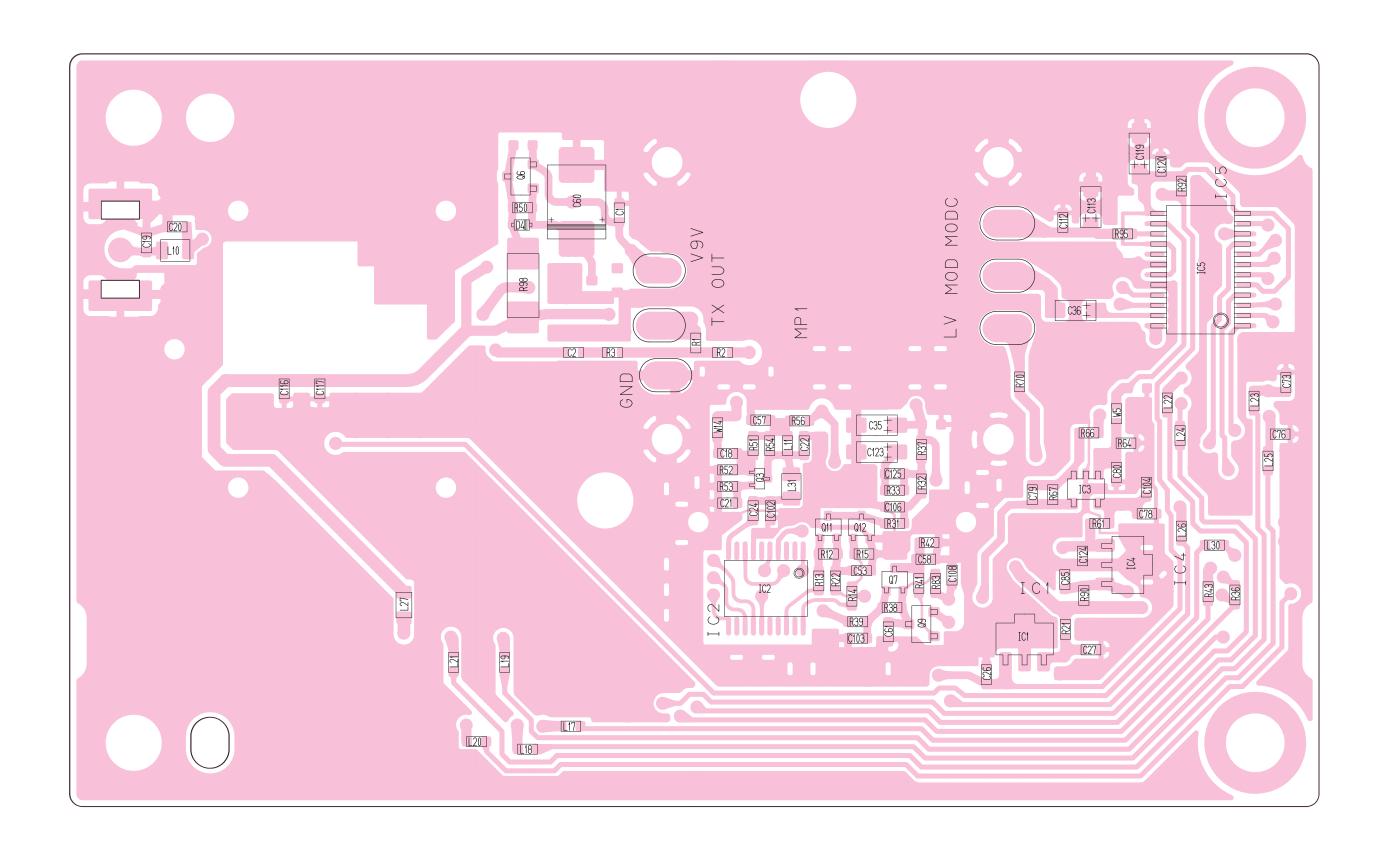
• TOP VIEW



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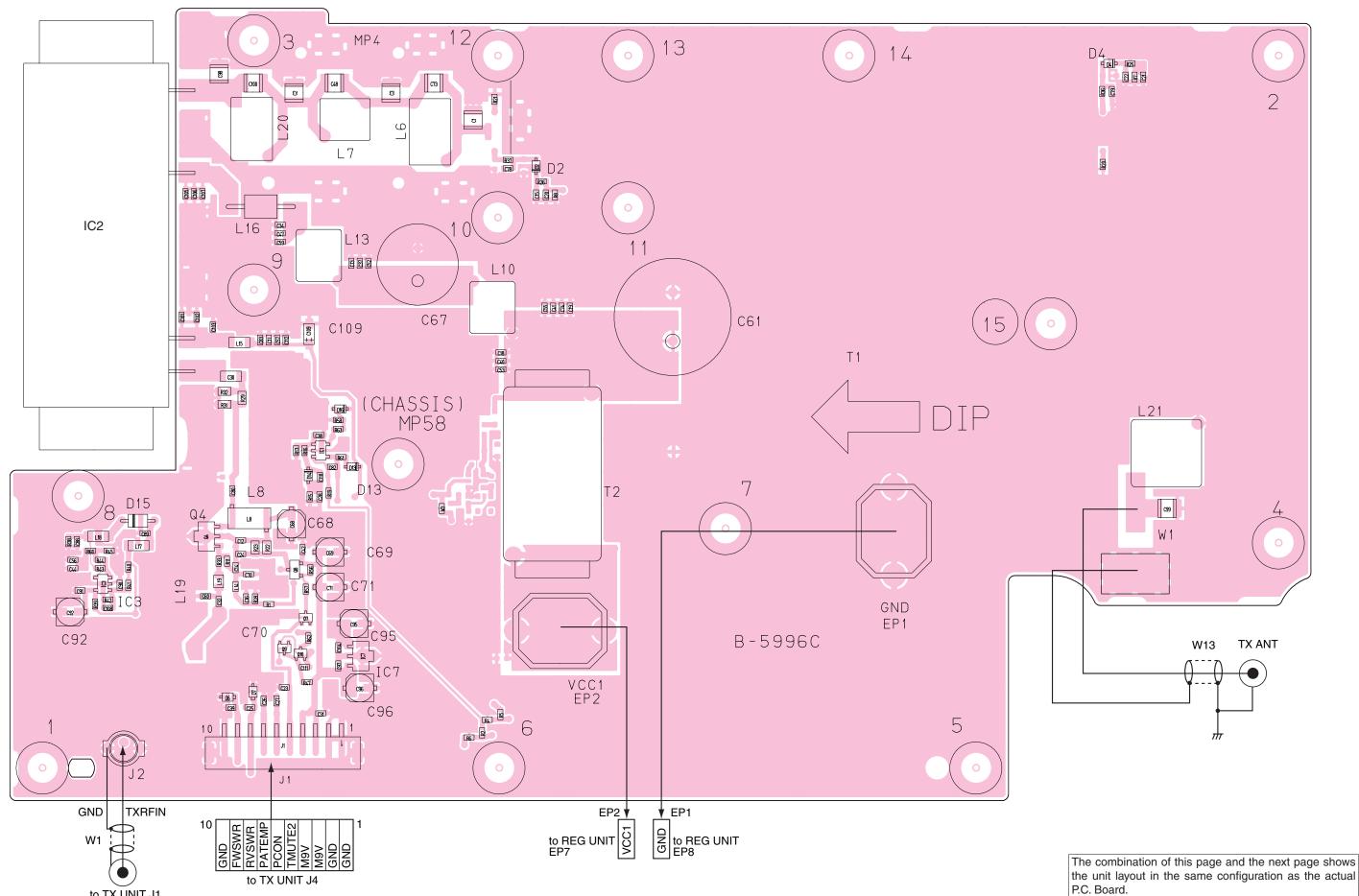
the unit layout in the same configuration as the actual

to PA UNIT



9 - 8 PA UNIT

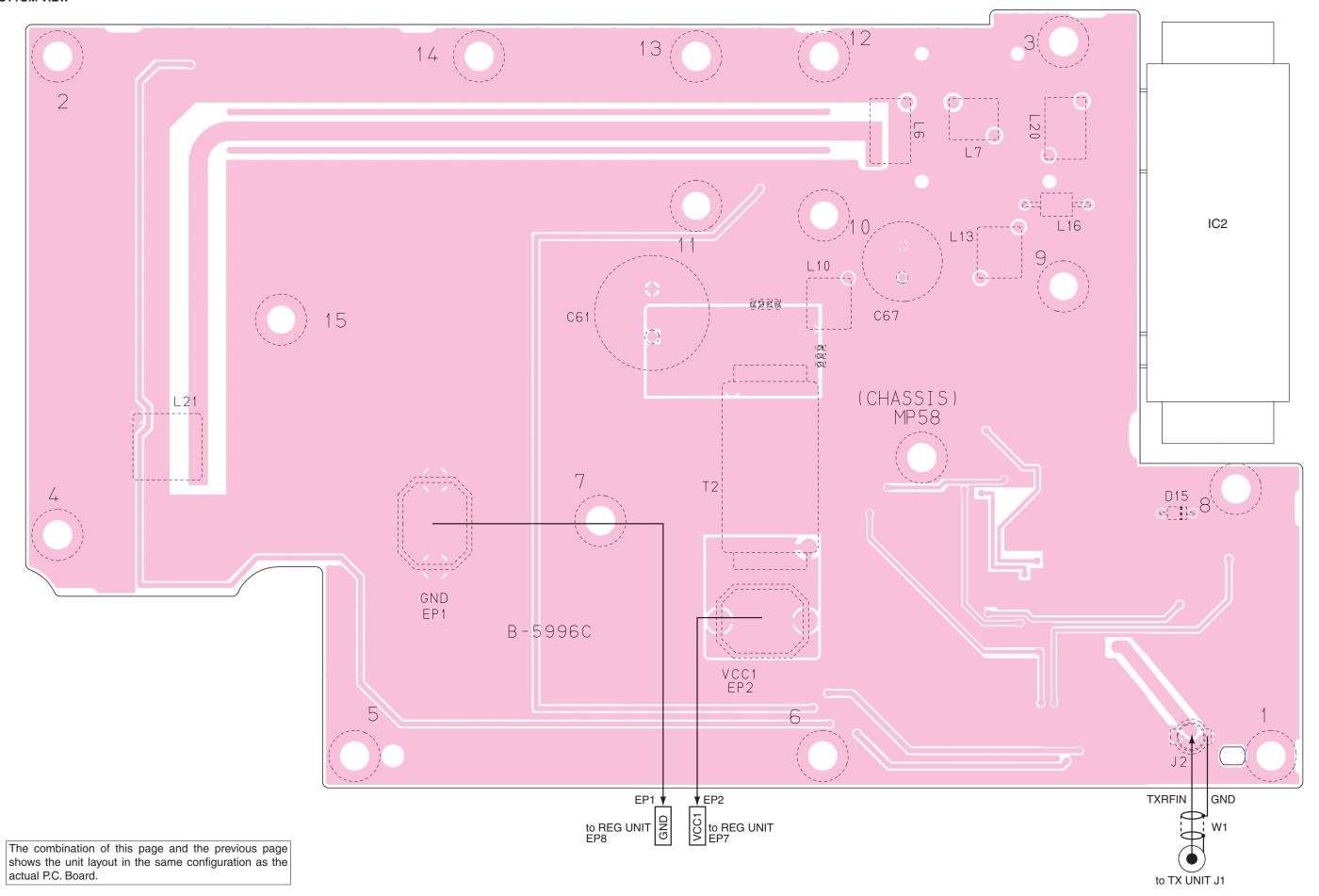
• TOP VIEW

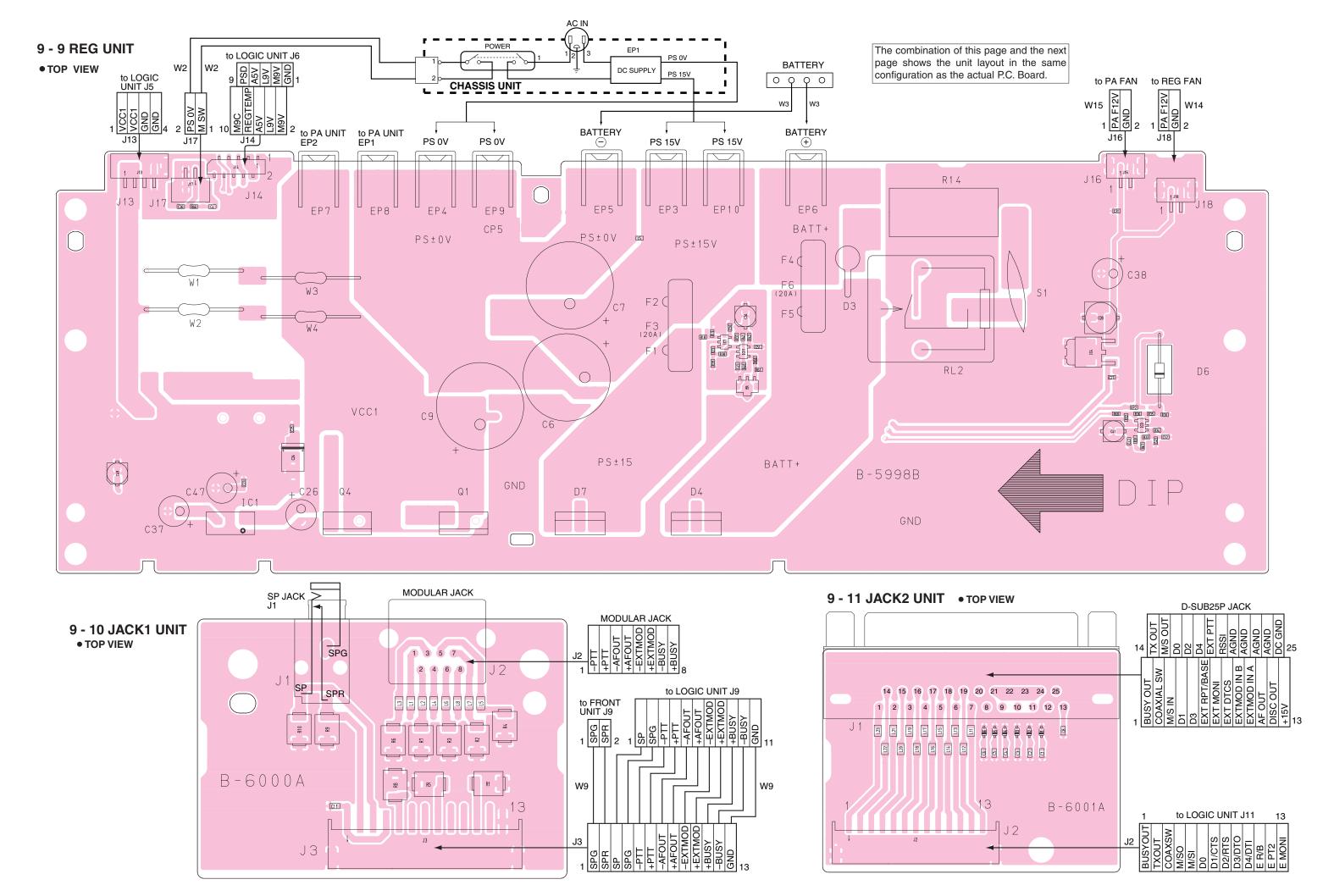


to TX UNIT J1

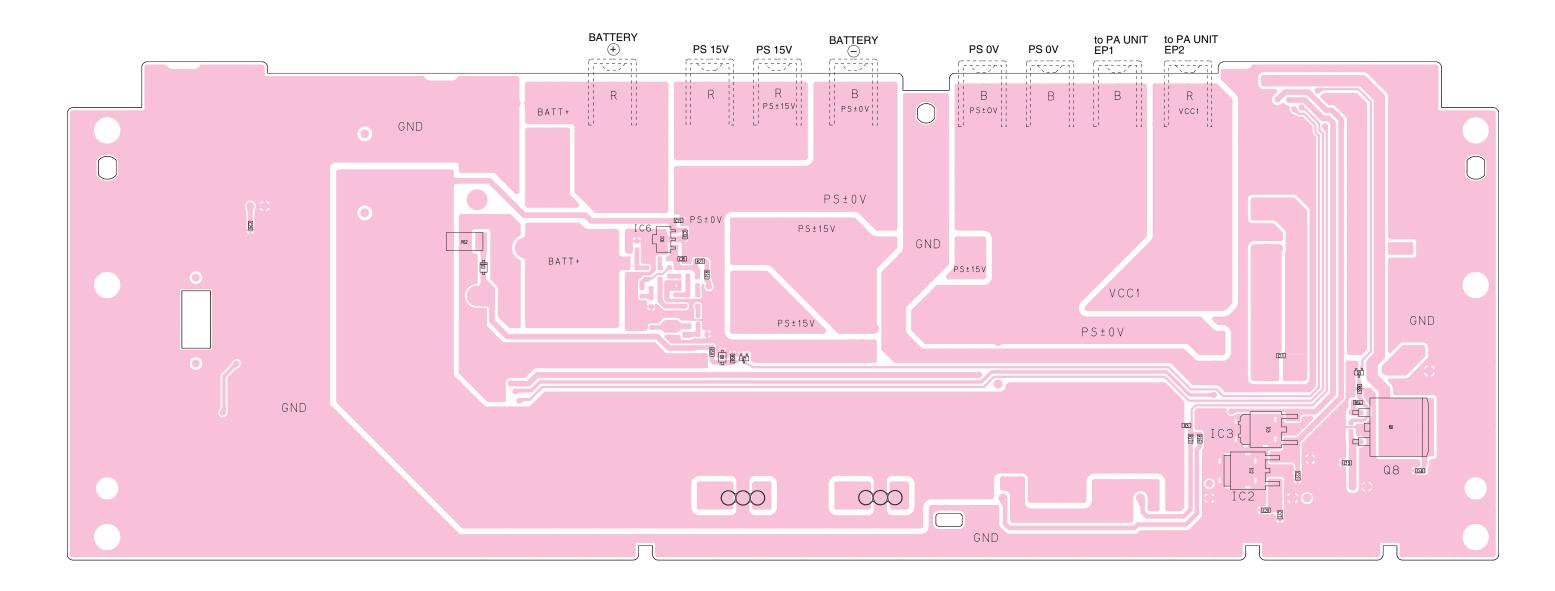
PA UNIT

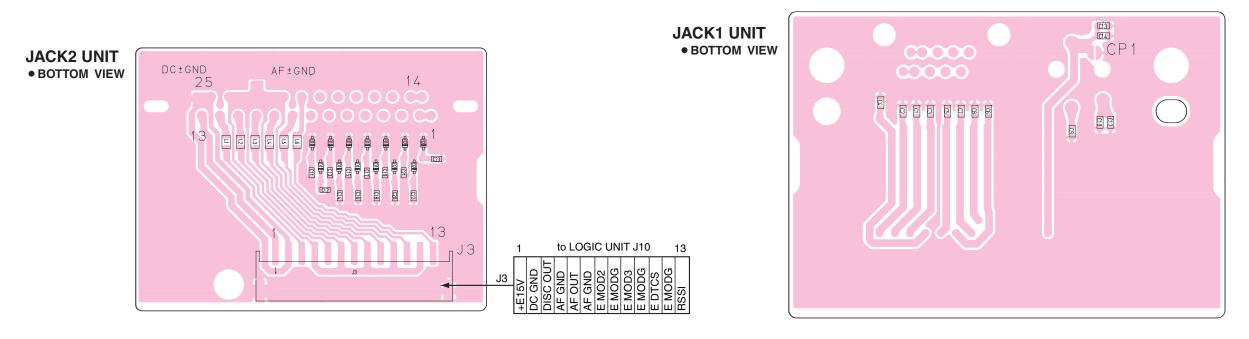
BOTTOM VIEW

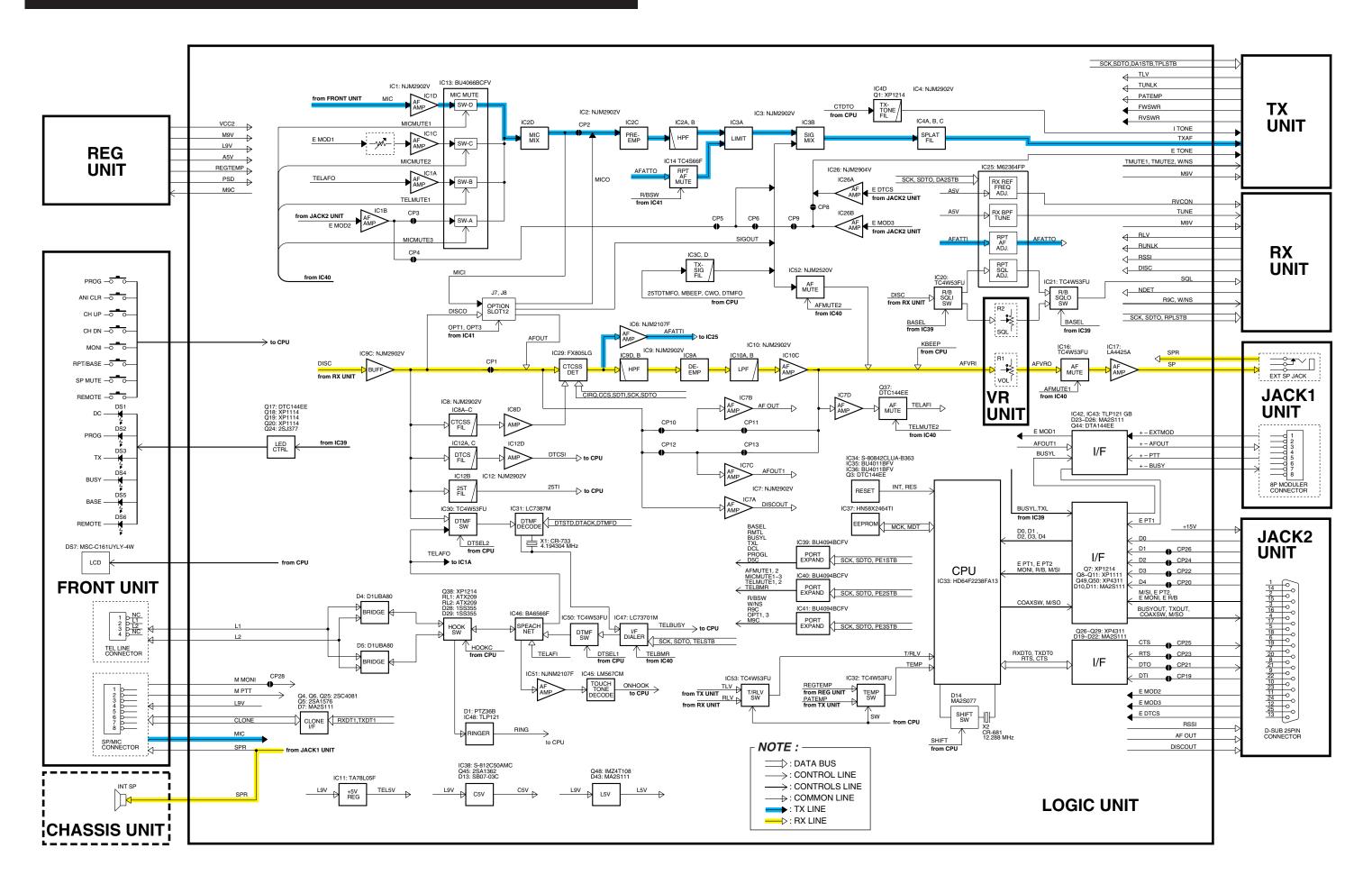


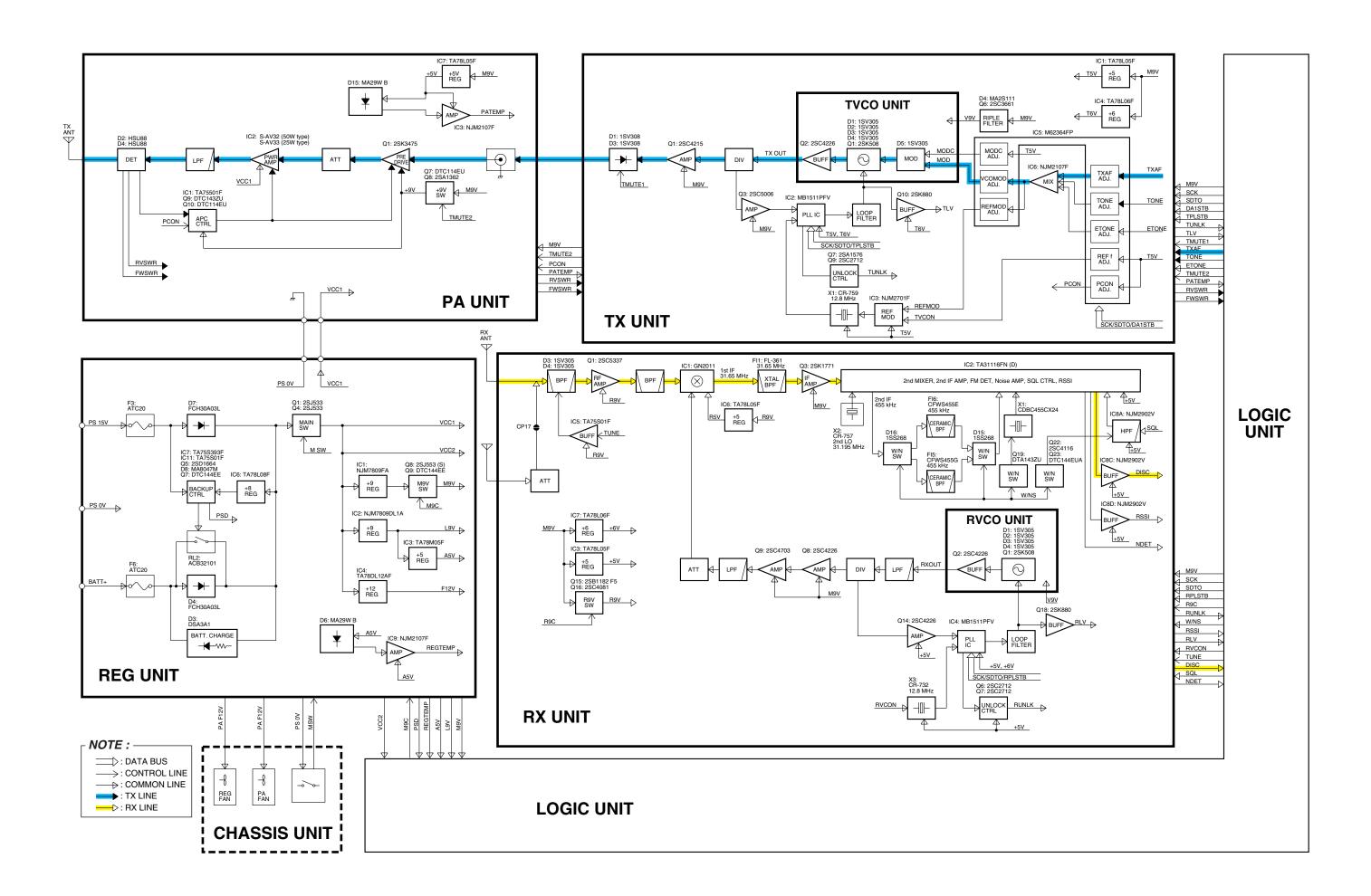


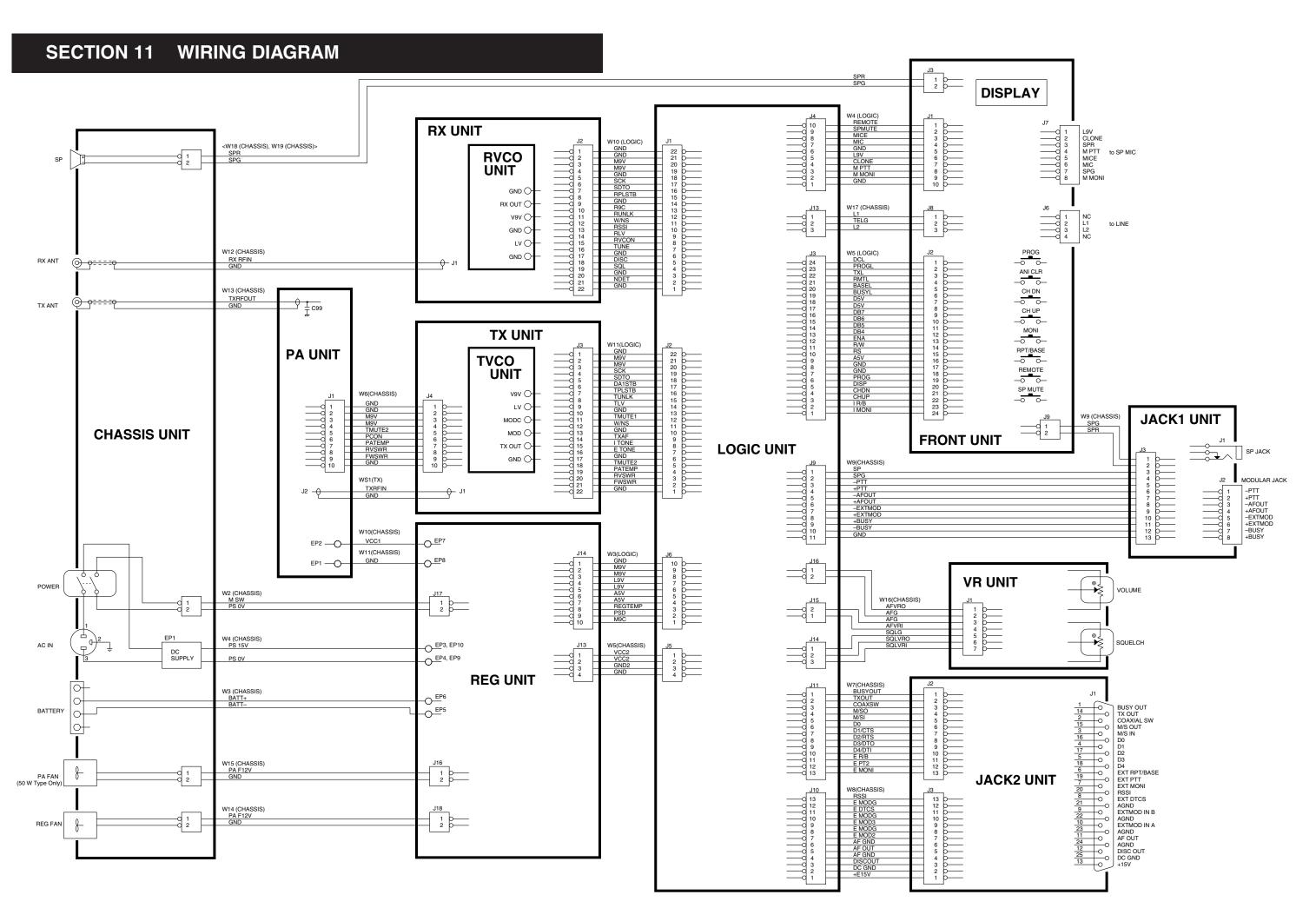
The combination of this page and the previous page shows the unit layout in the same configuration as the actual P.C. Board.



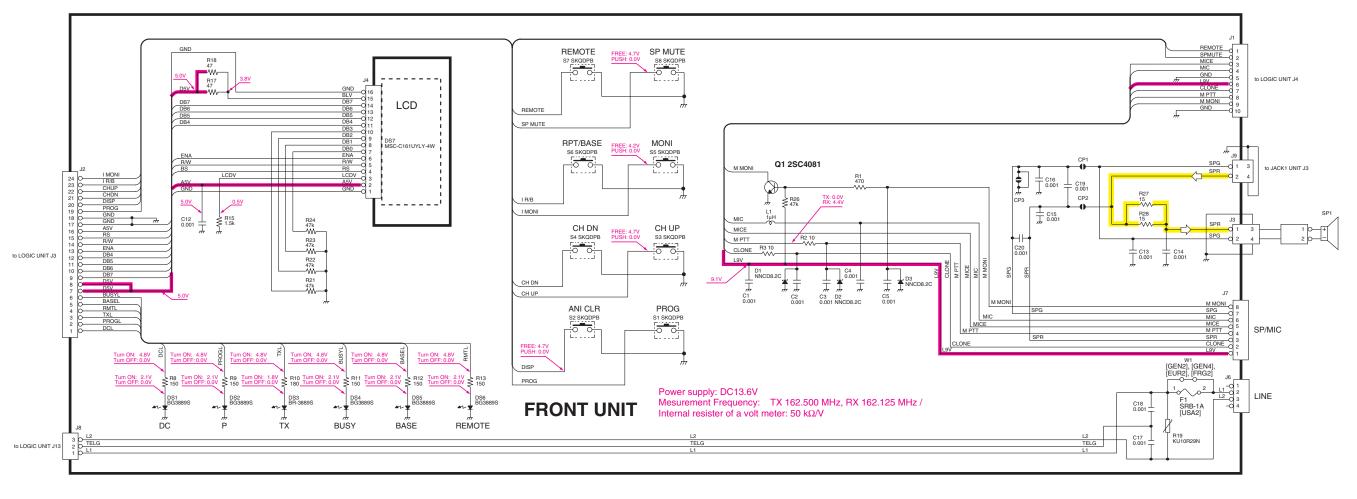


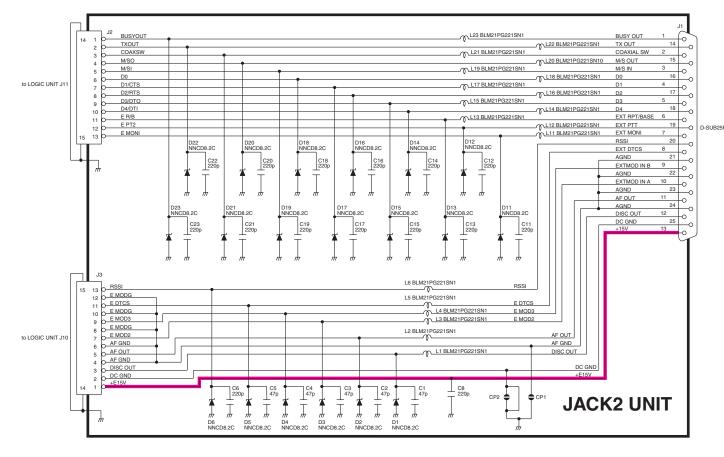


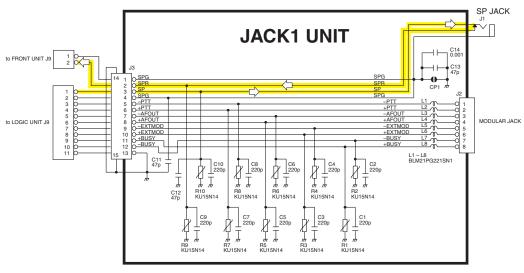


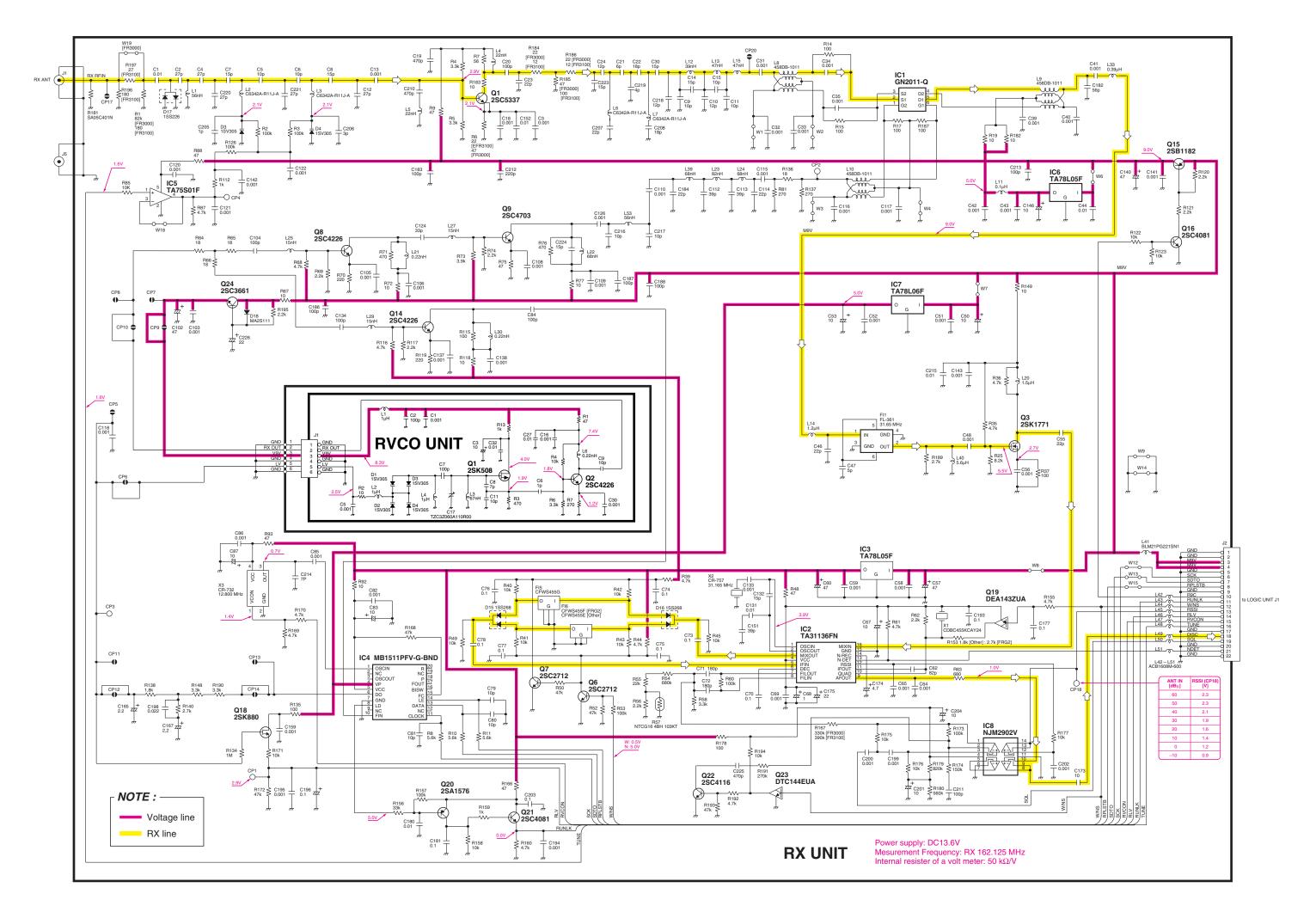


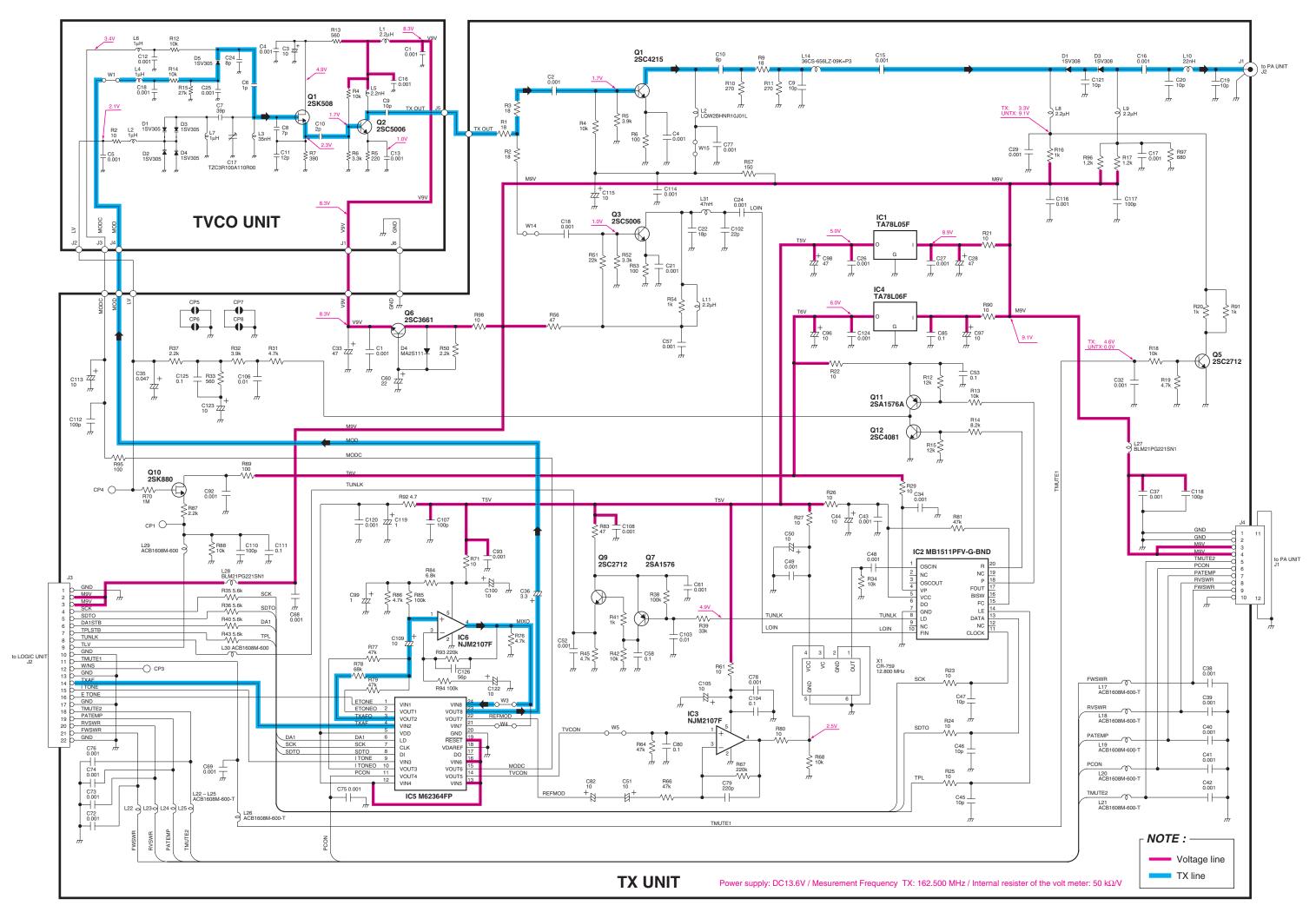
SECTION 12 VOLTAGE DIAGRAM

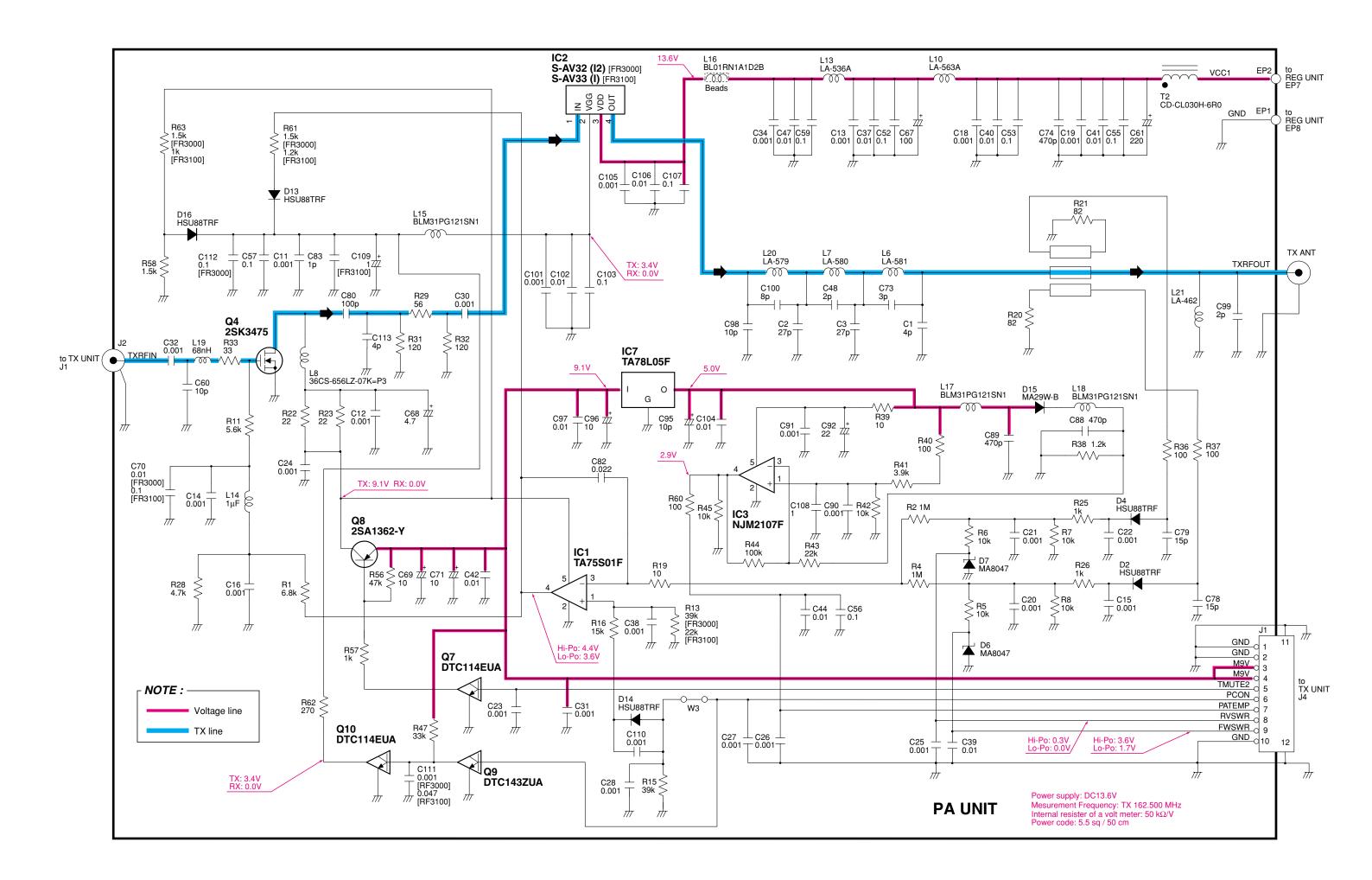


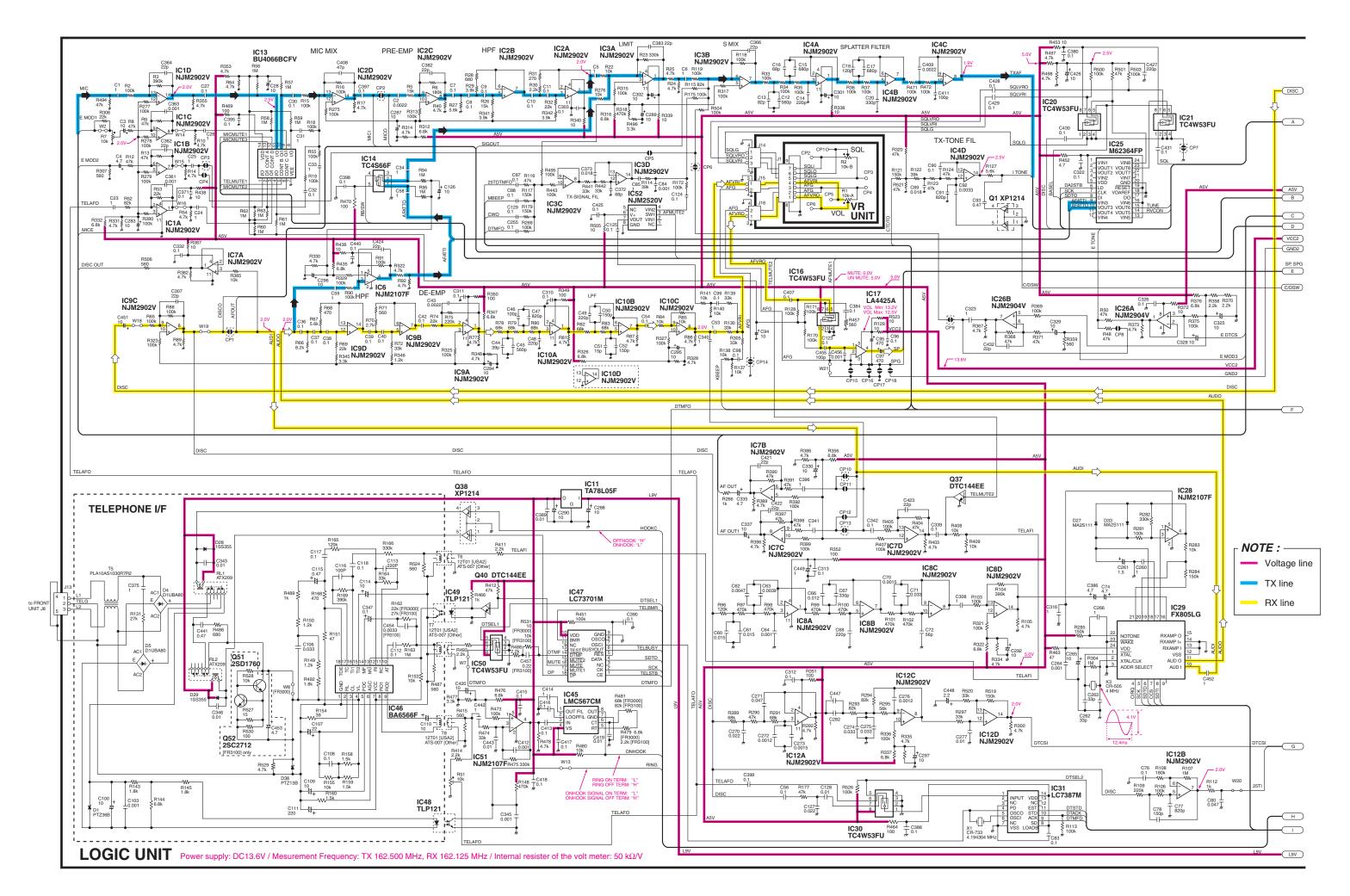


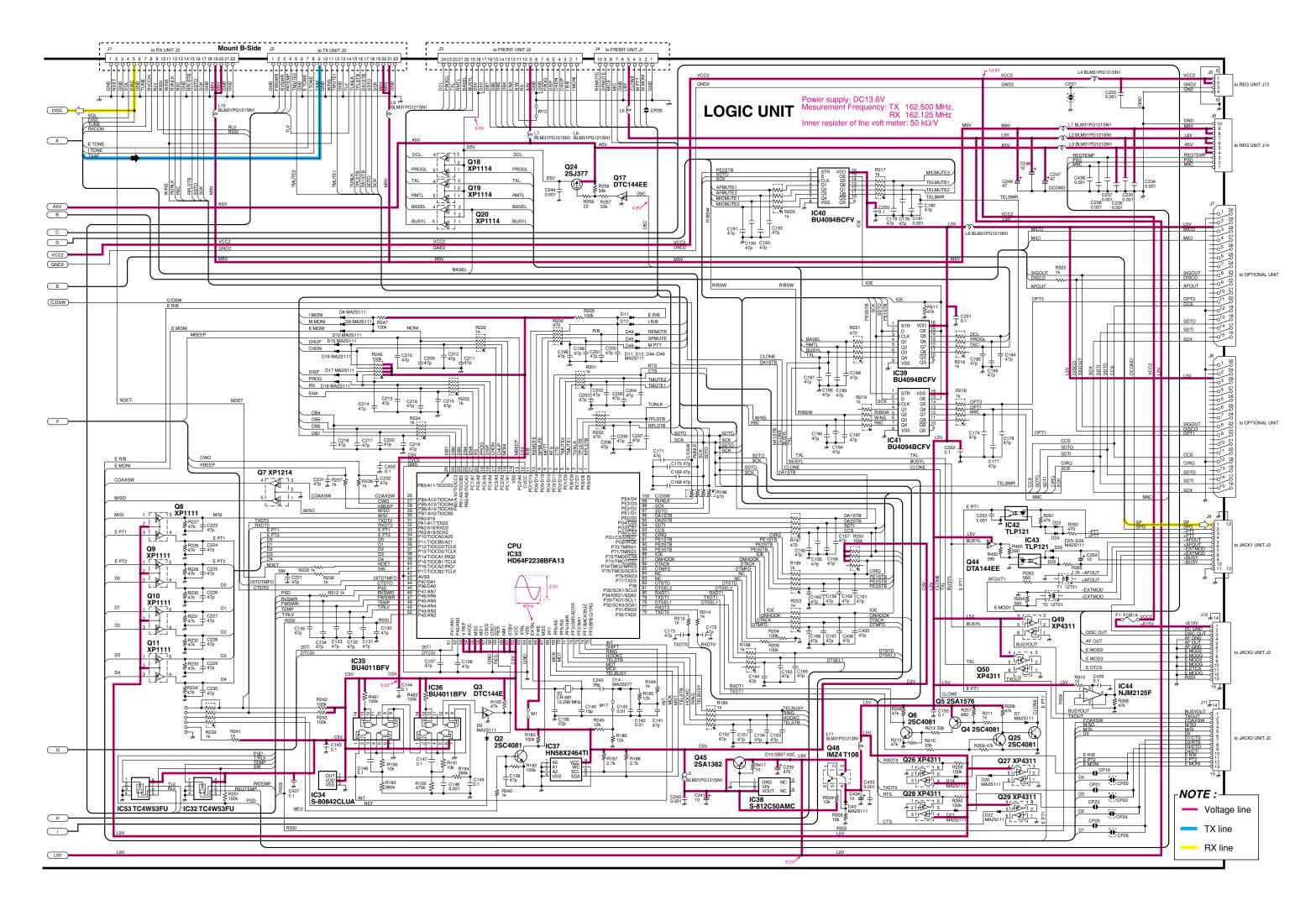


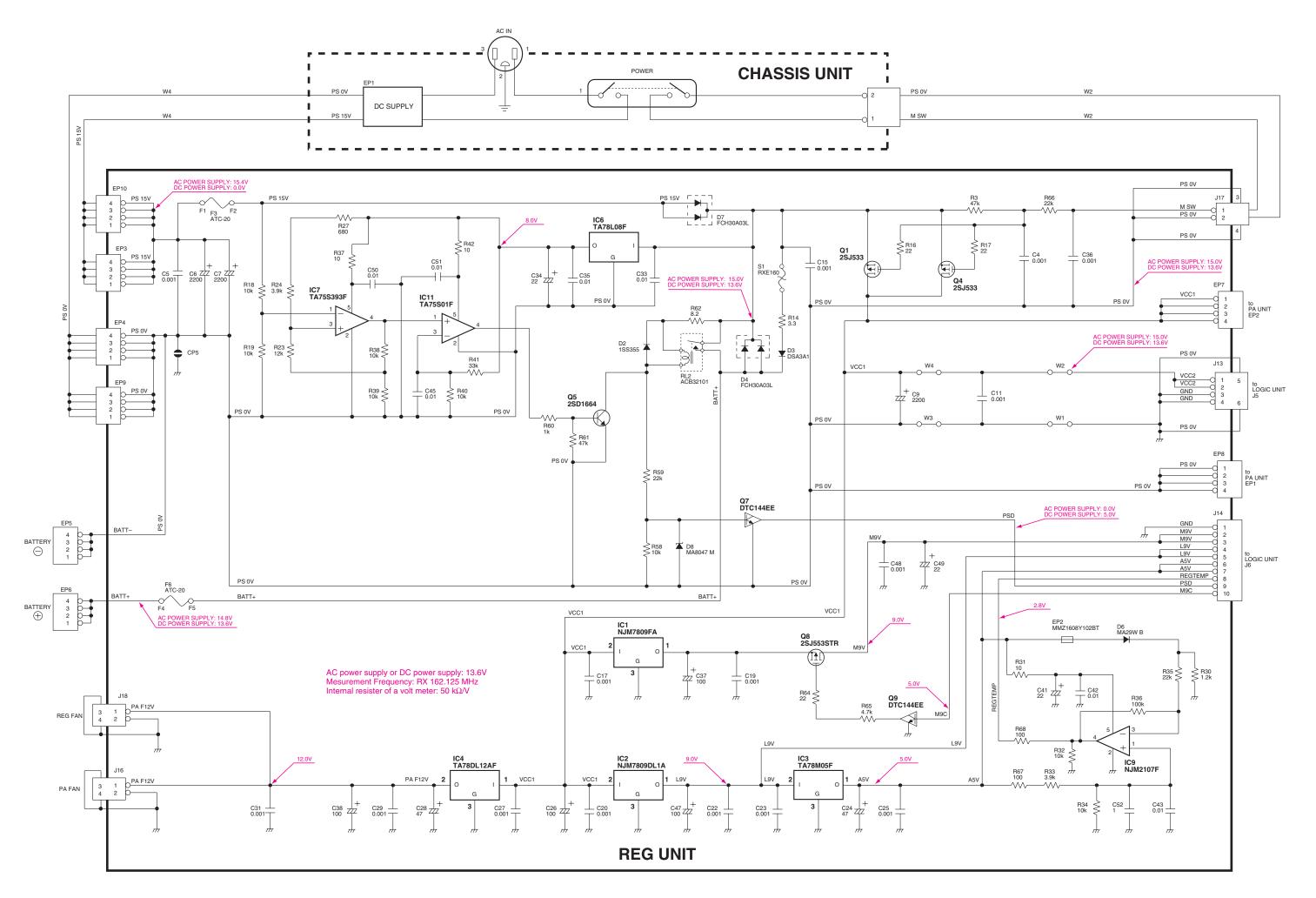












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